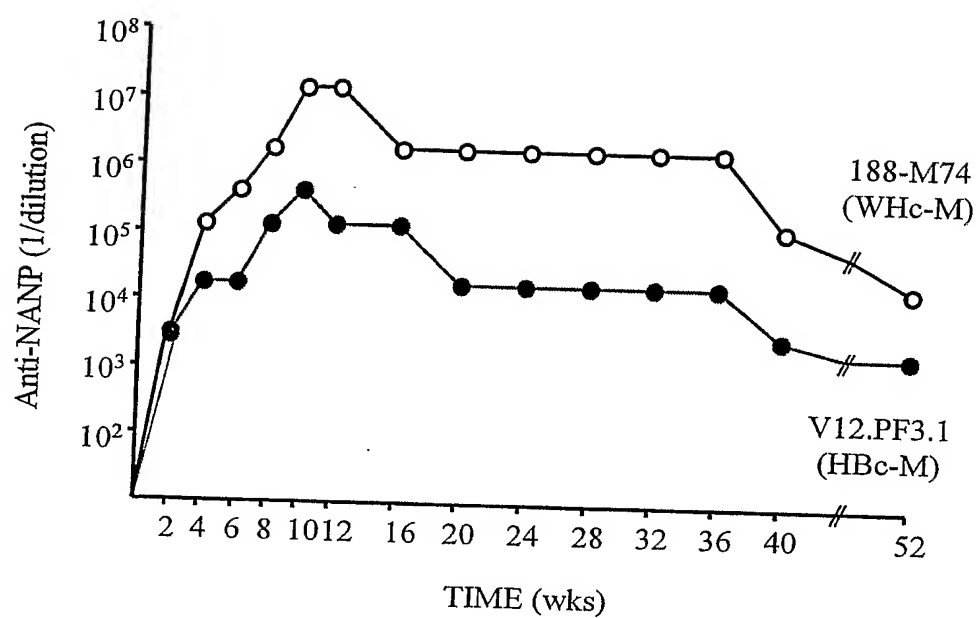
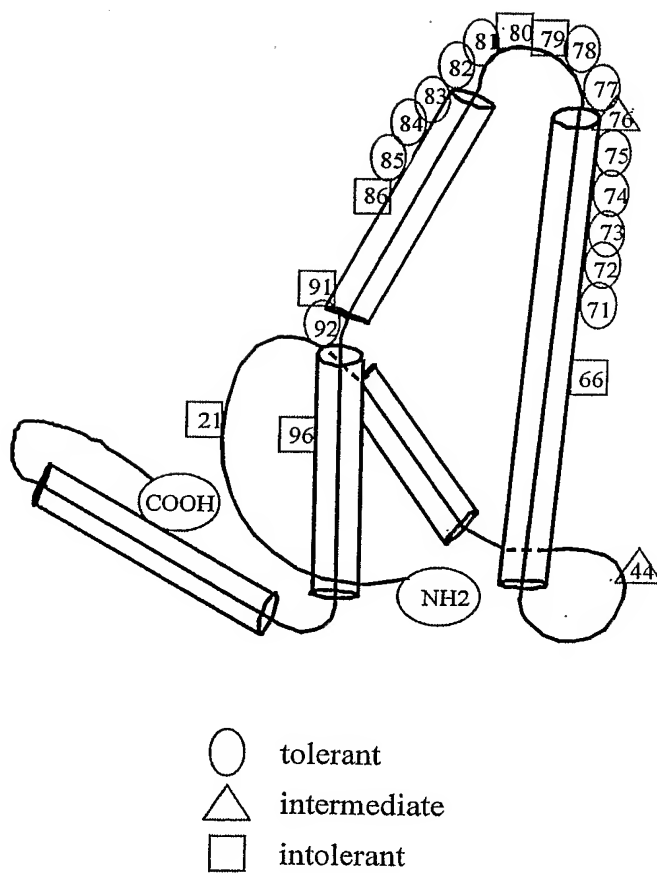


Fig. 1

**Fig. 2**

**Fig. 3**

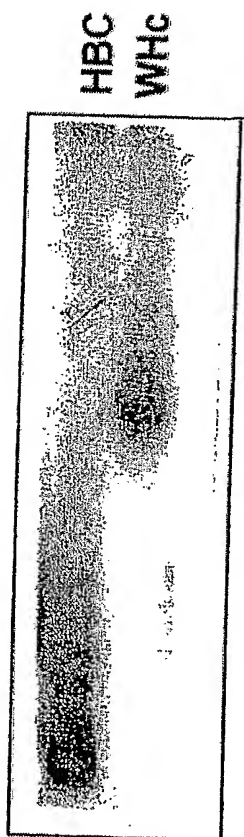


Fig. 4

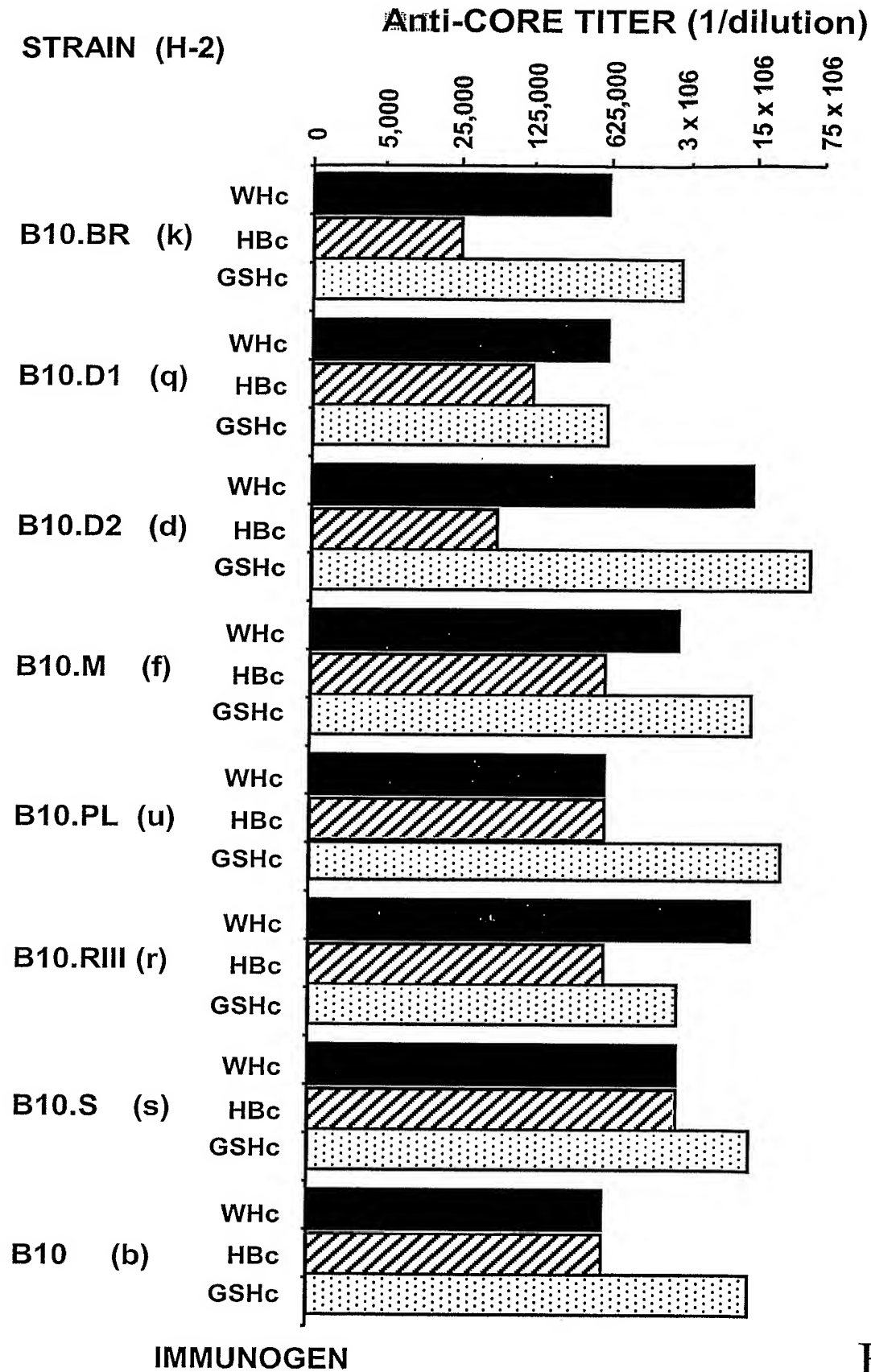


Fig. 5

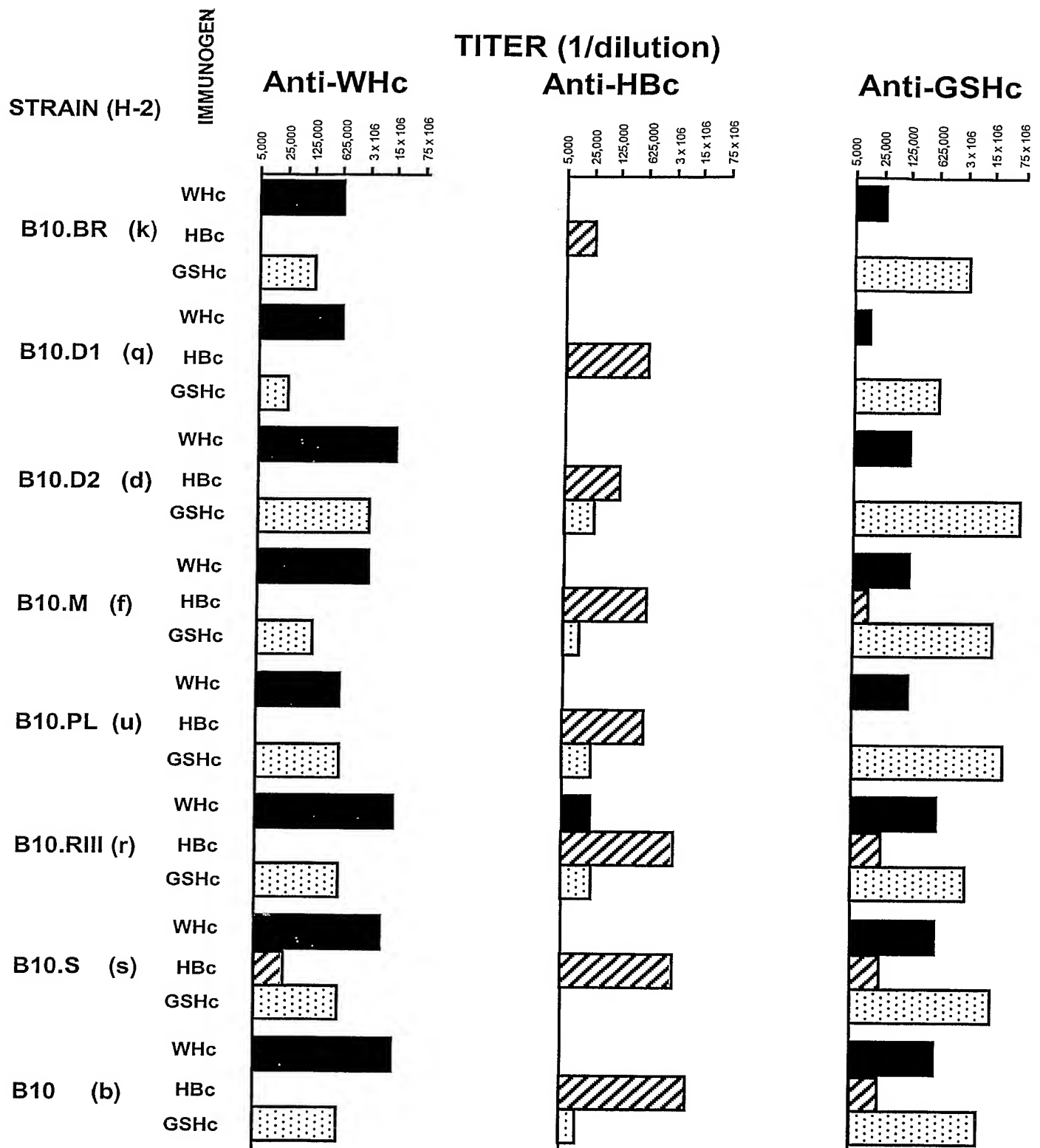


Fig. 6

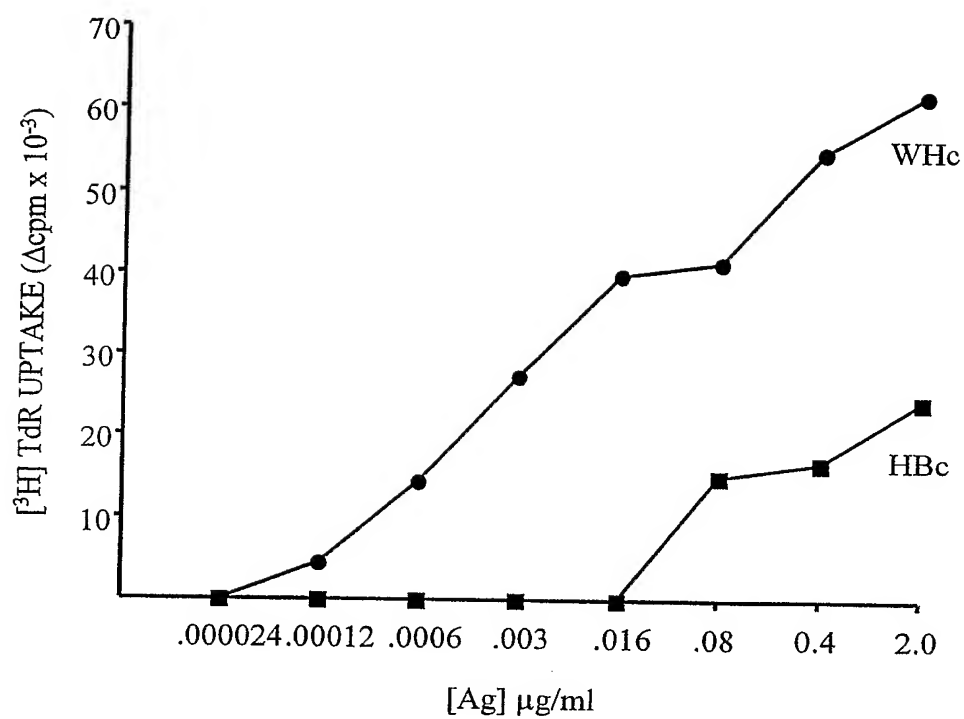


Fig. 7

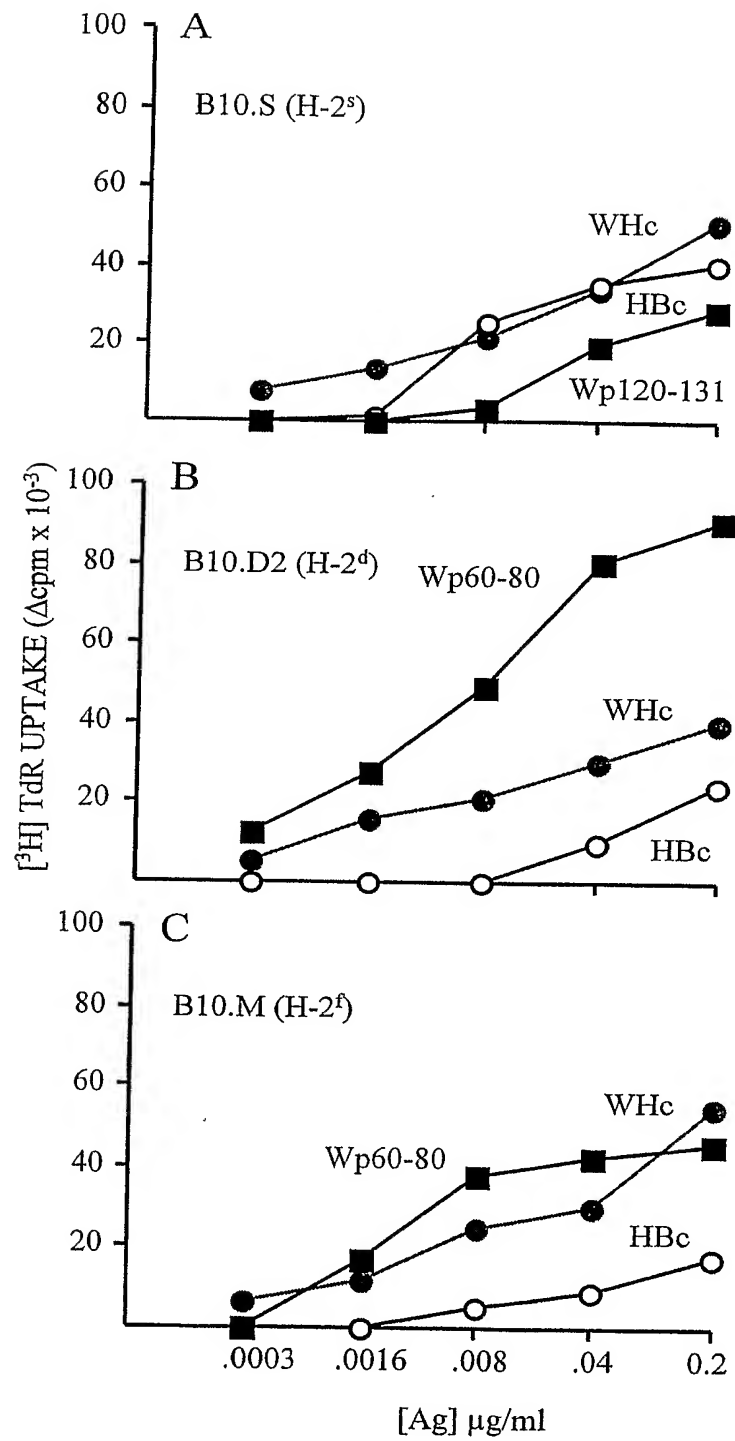
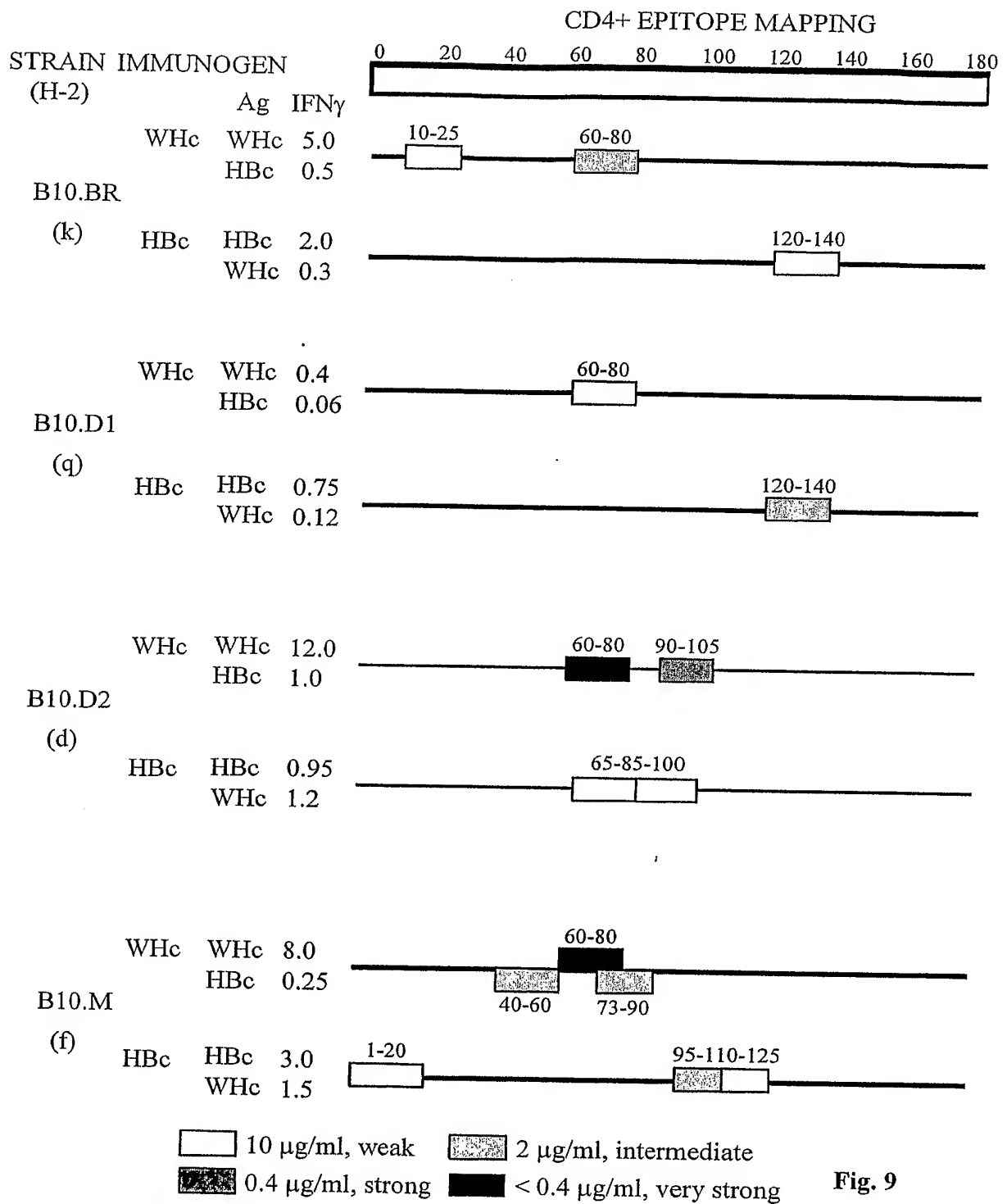


Fig. 8



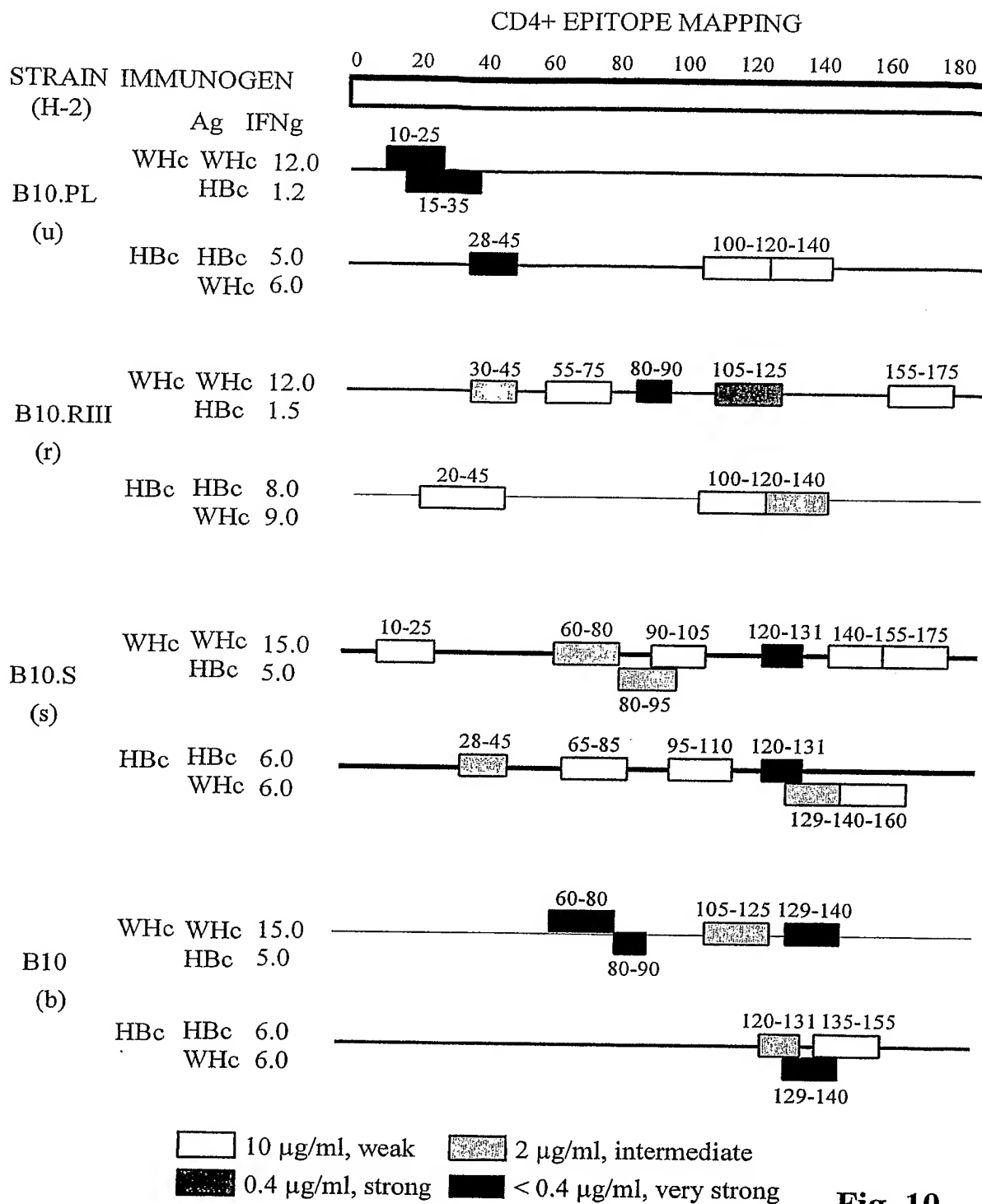
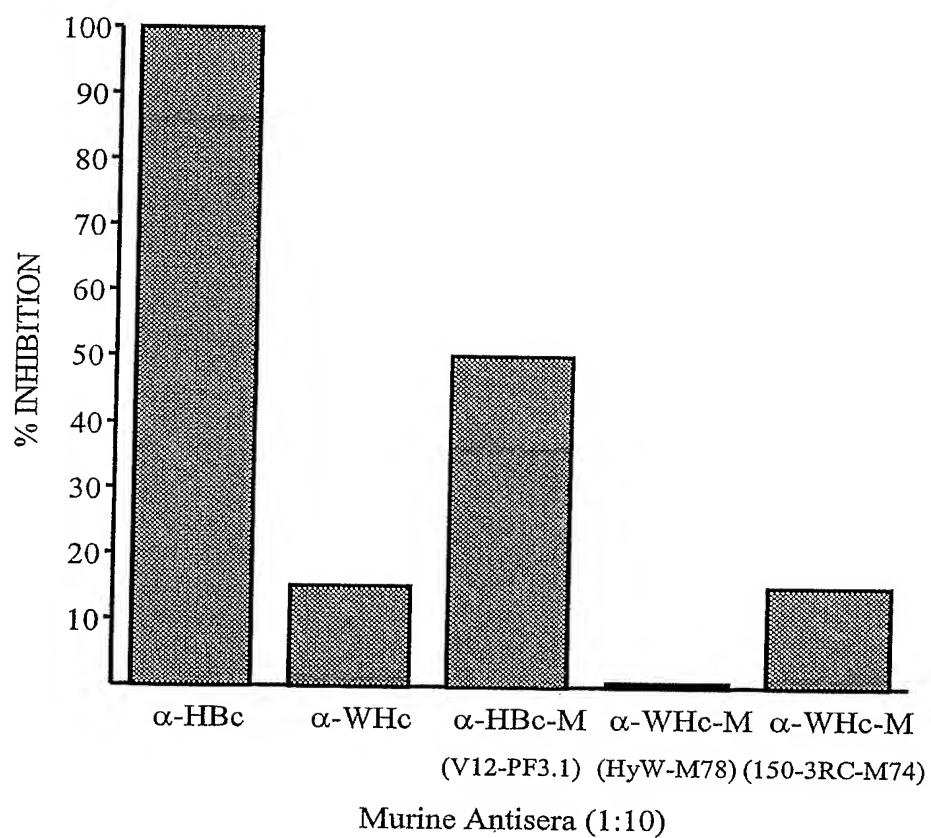


Fig. 10

**Fig. 11**

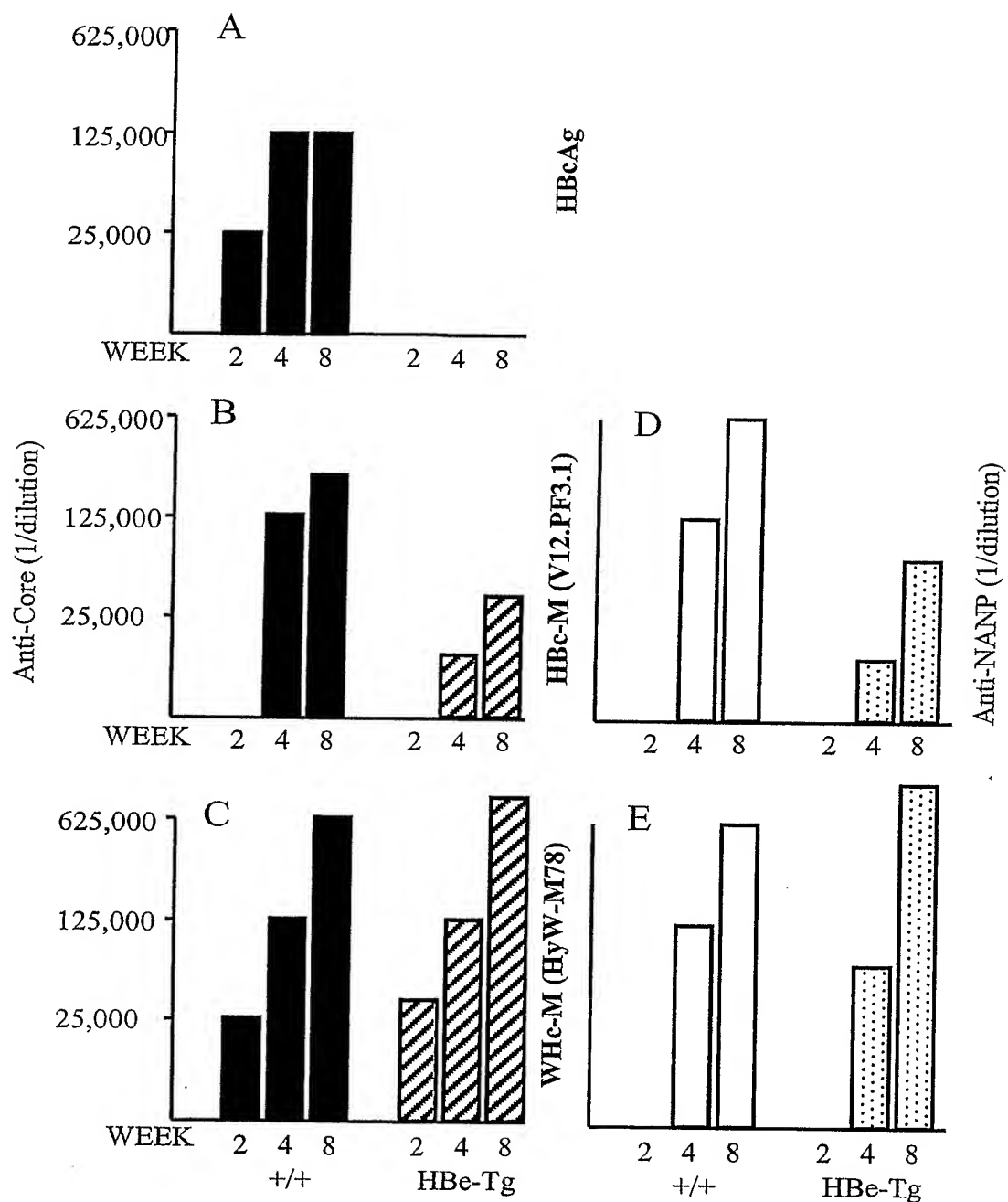


Fig. 12

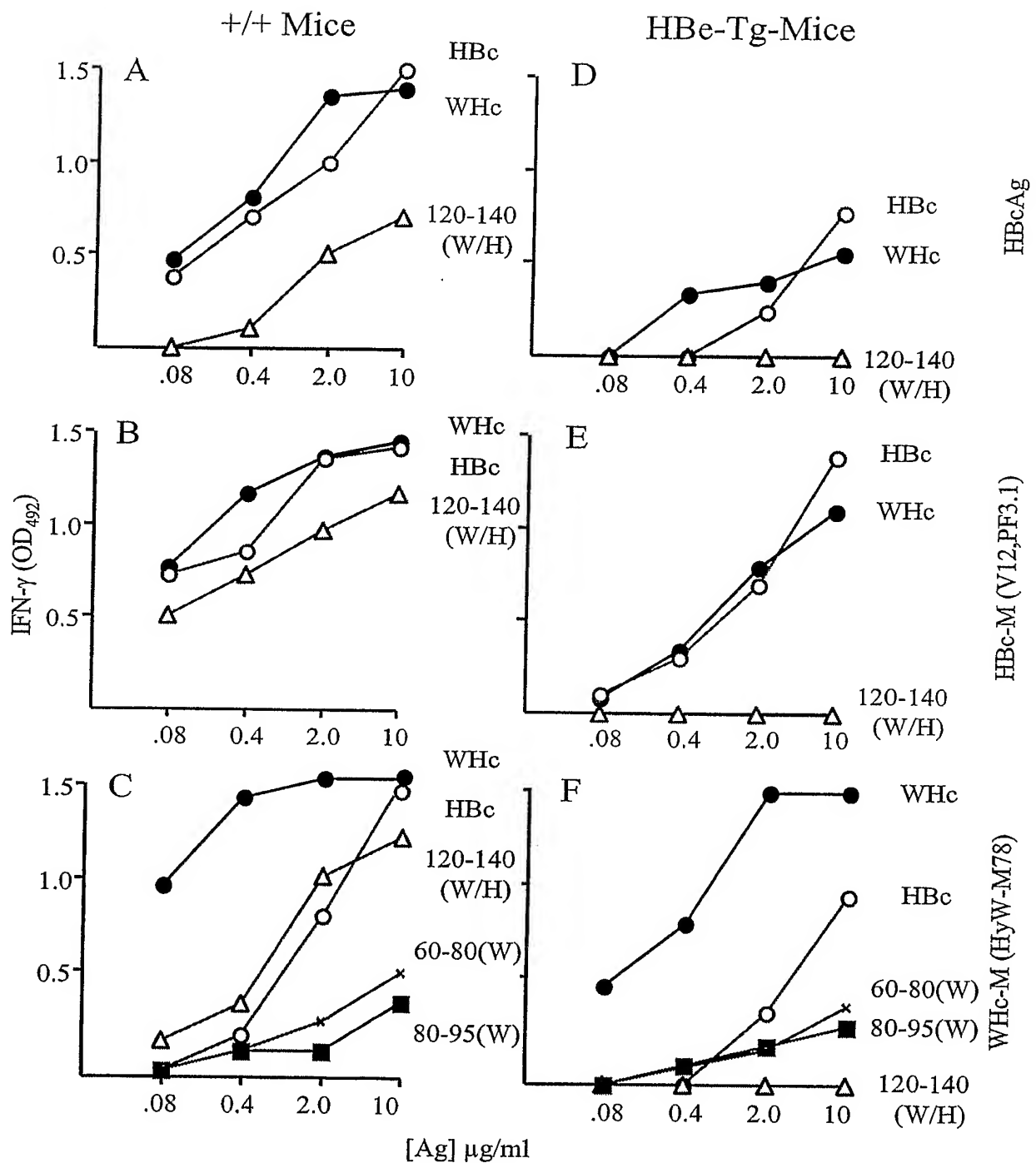


Fig. 13

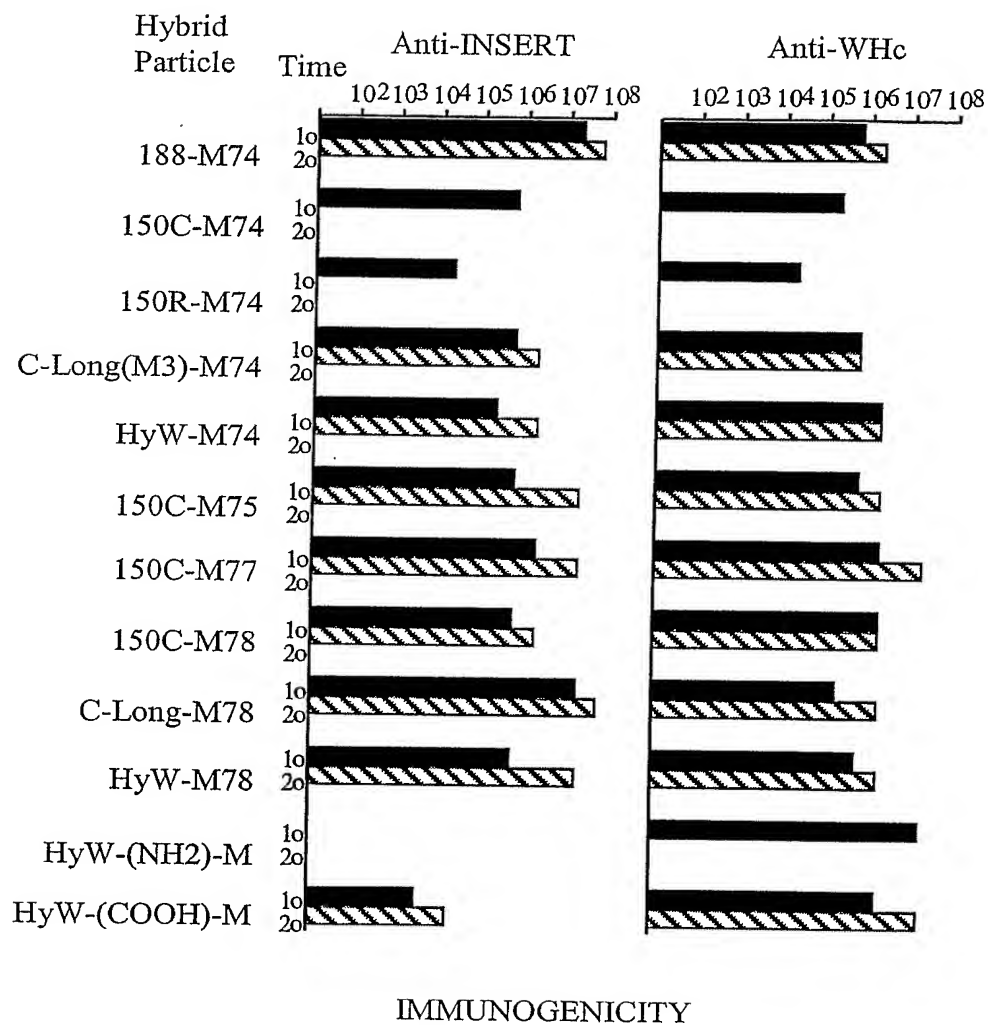


Fig. 14

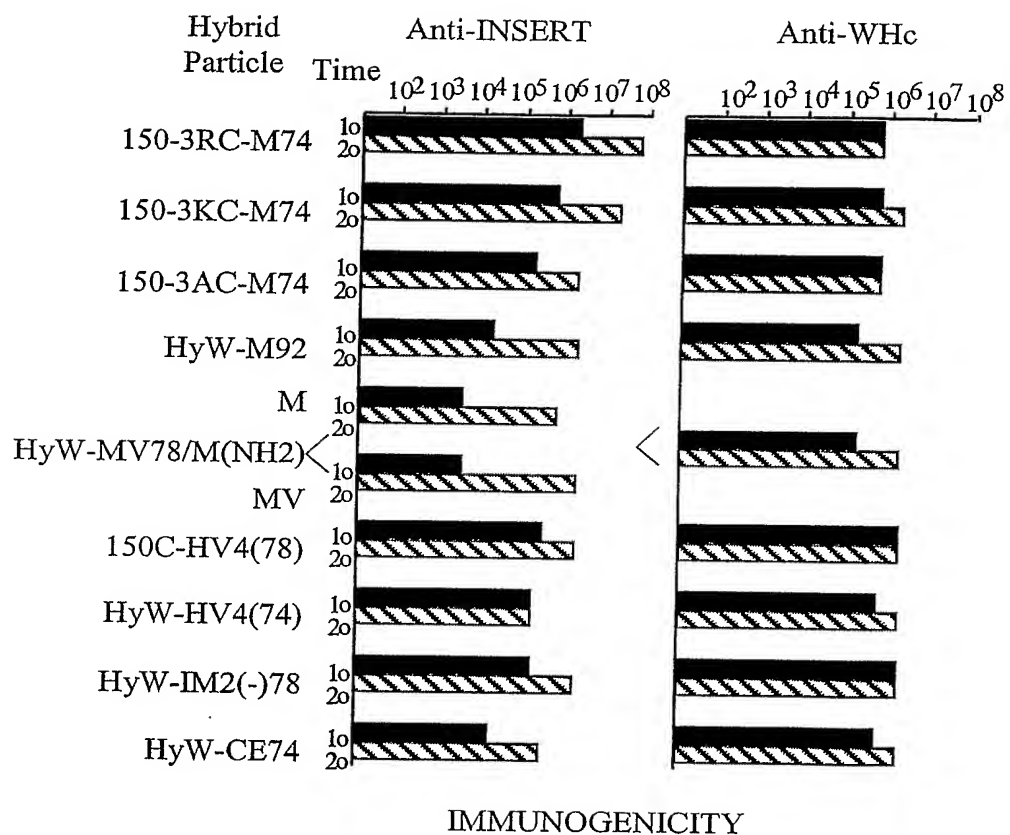


Fig. 15

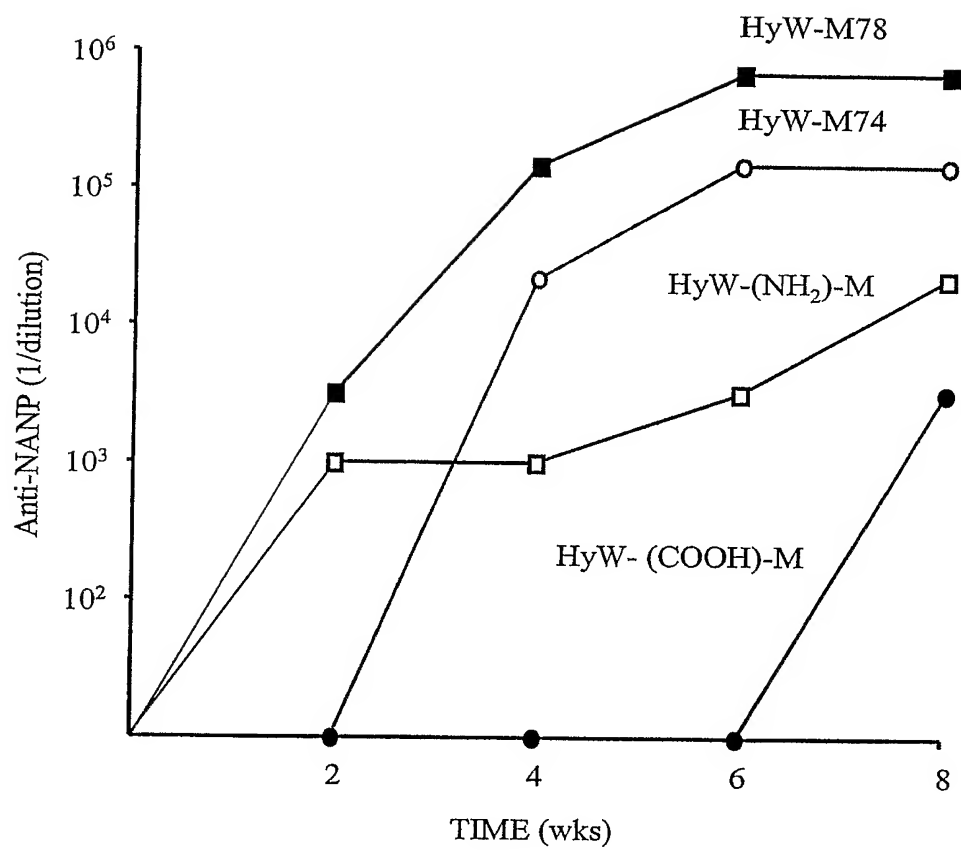
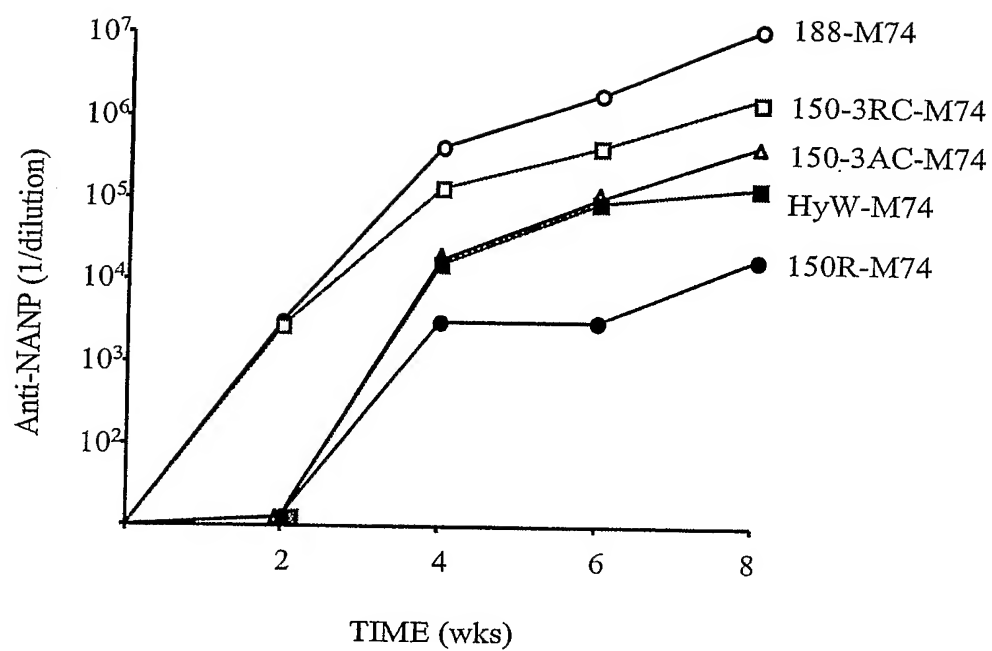


Fig. 16

**Fig. 17**

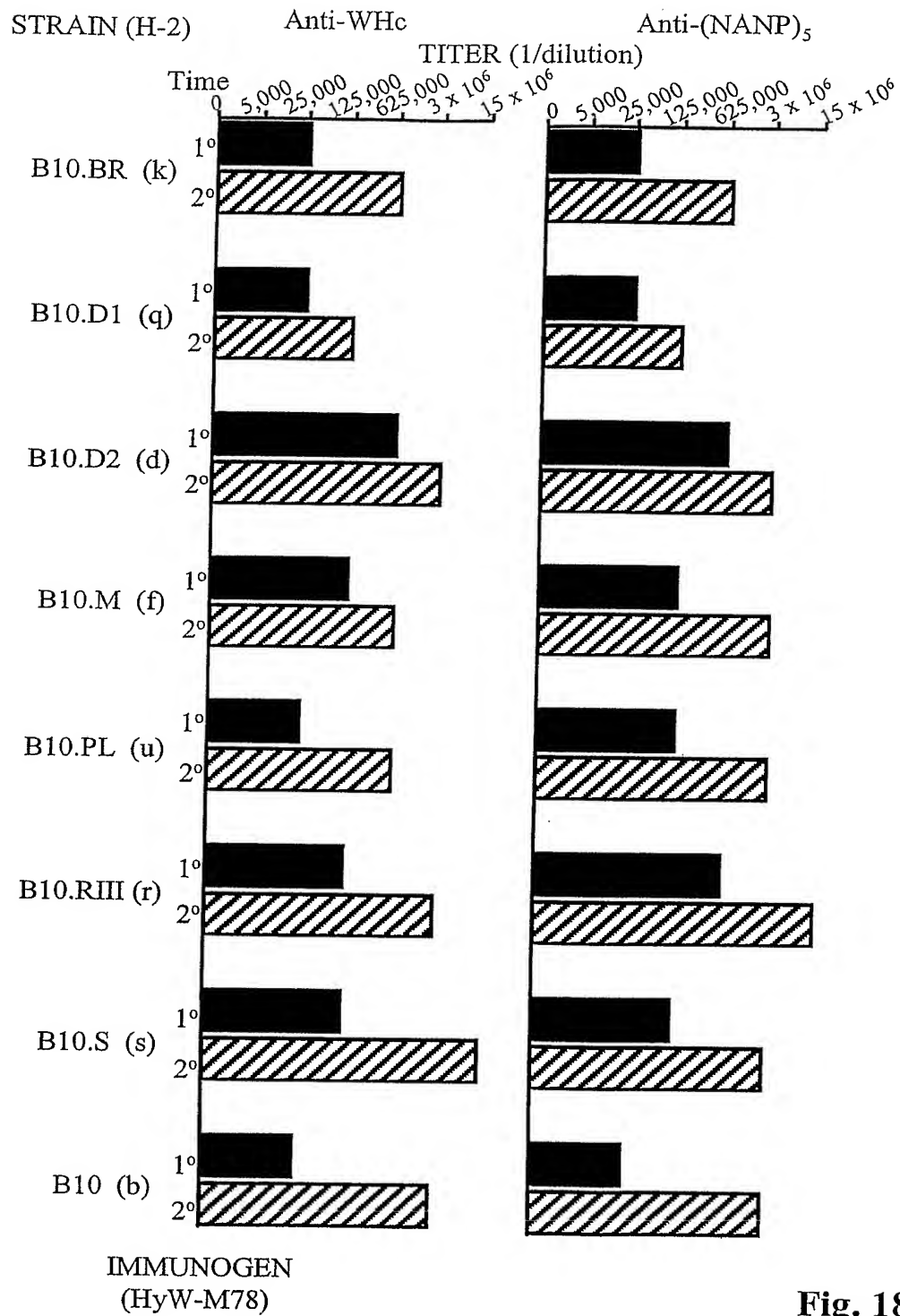


Fig. 18

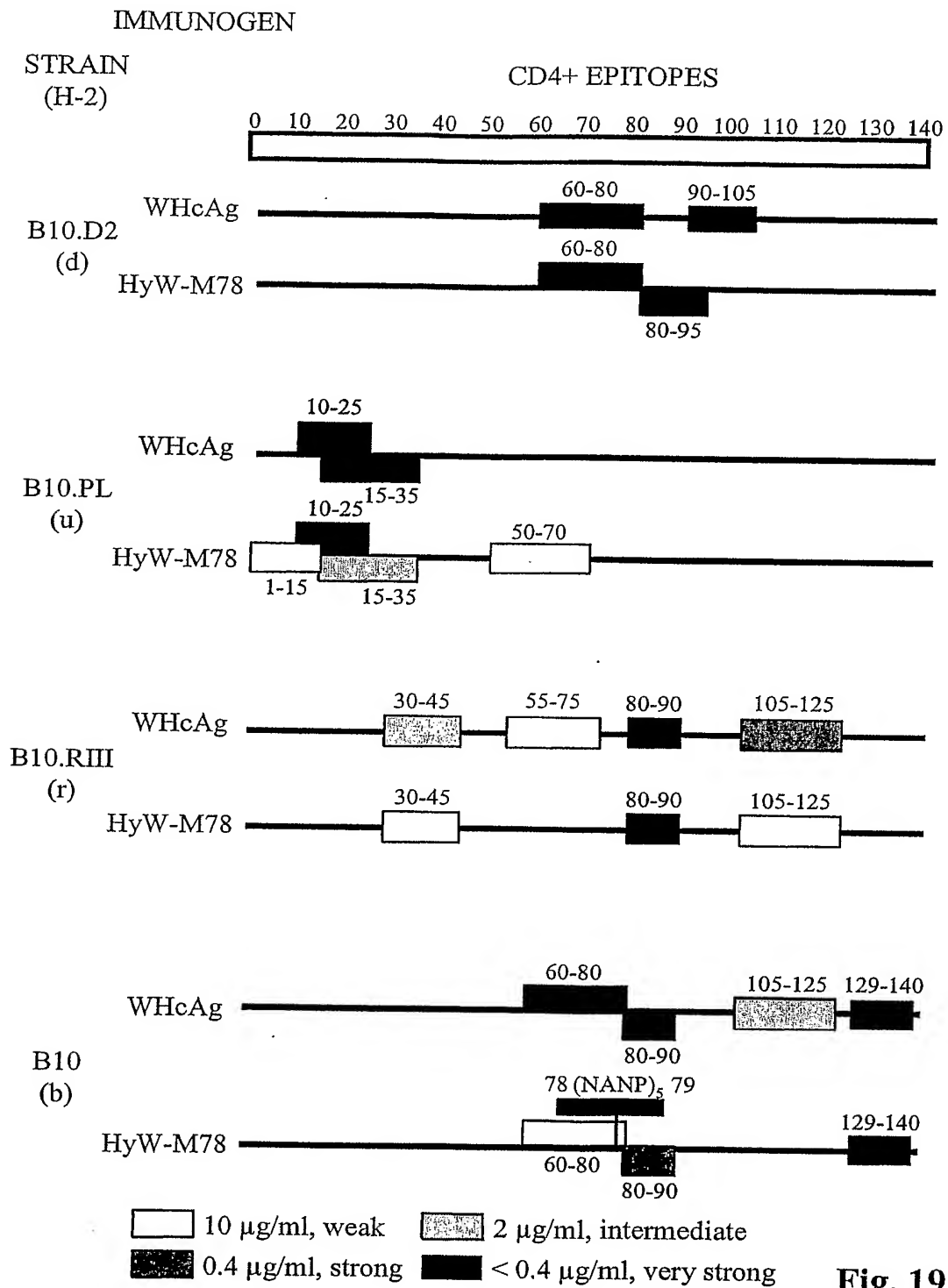


Fig. 19

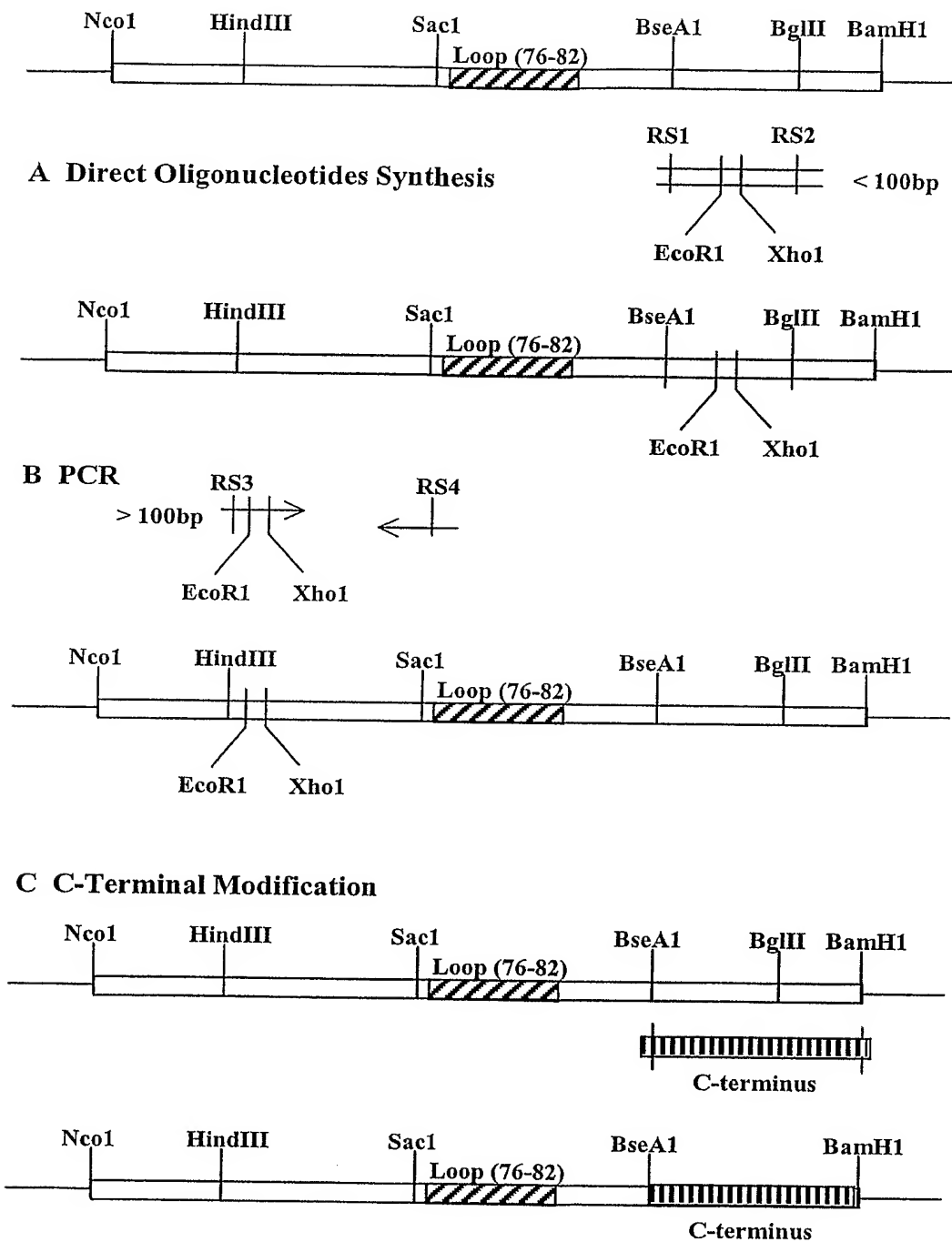
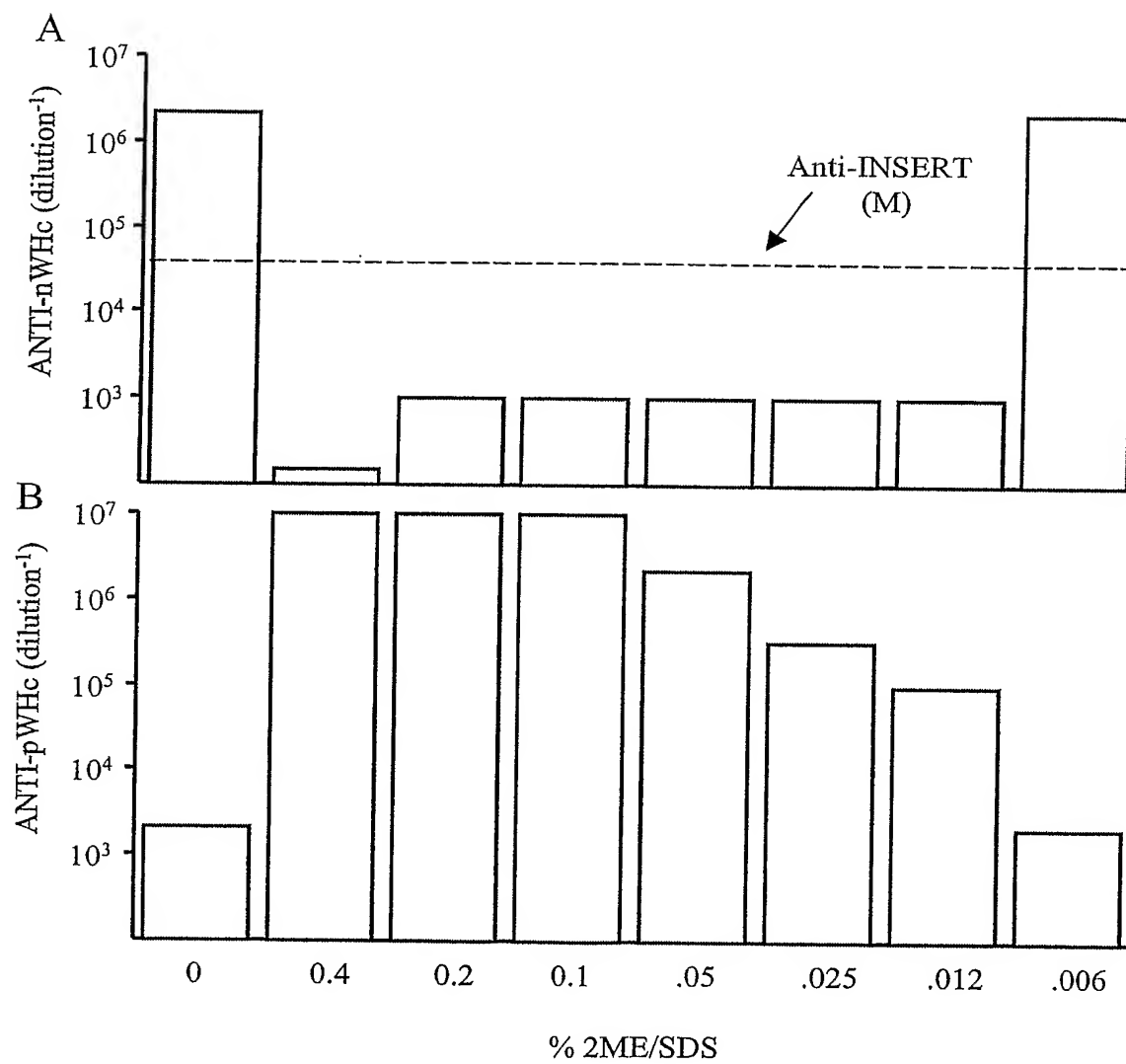


Fig. 20

**Fig. 21**

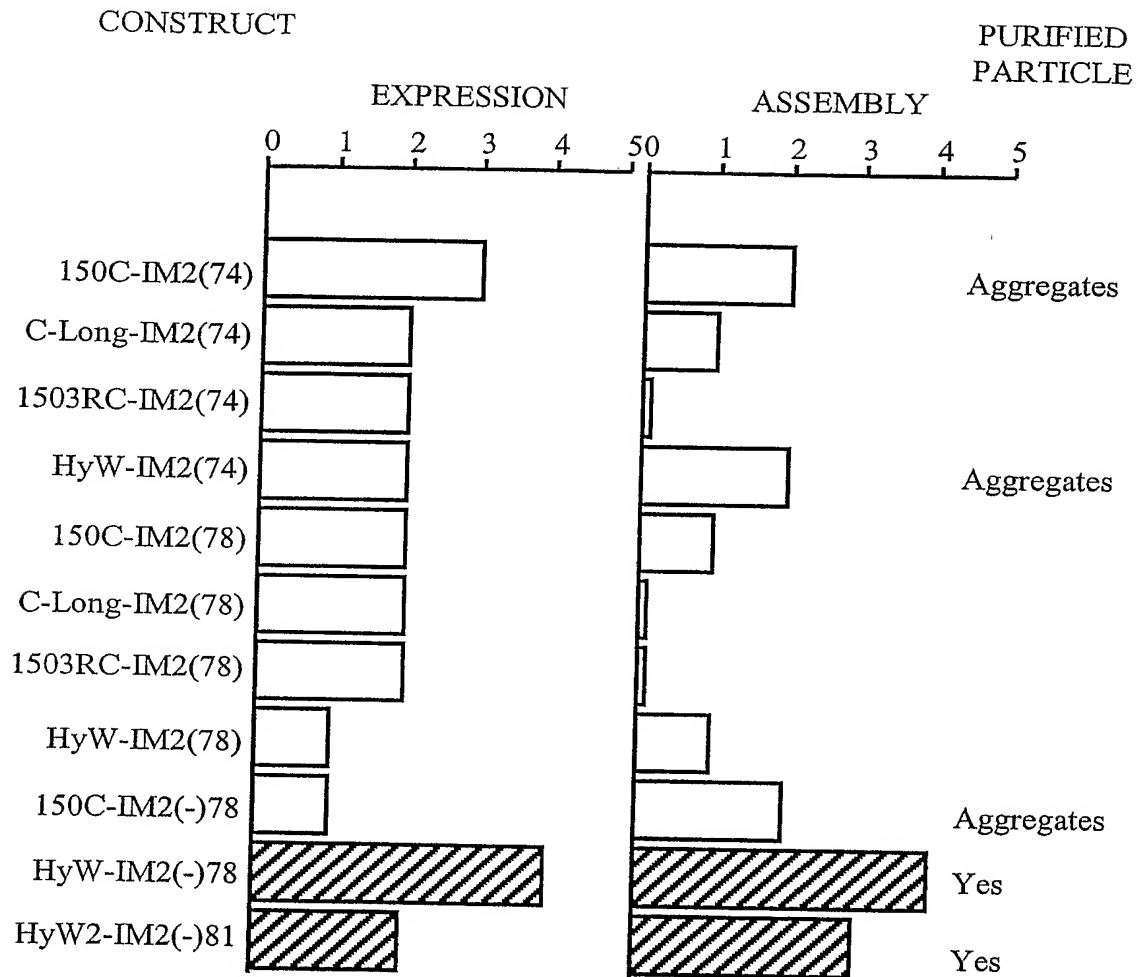
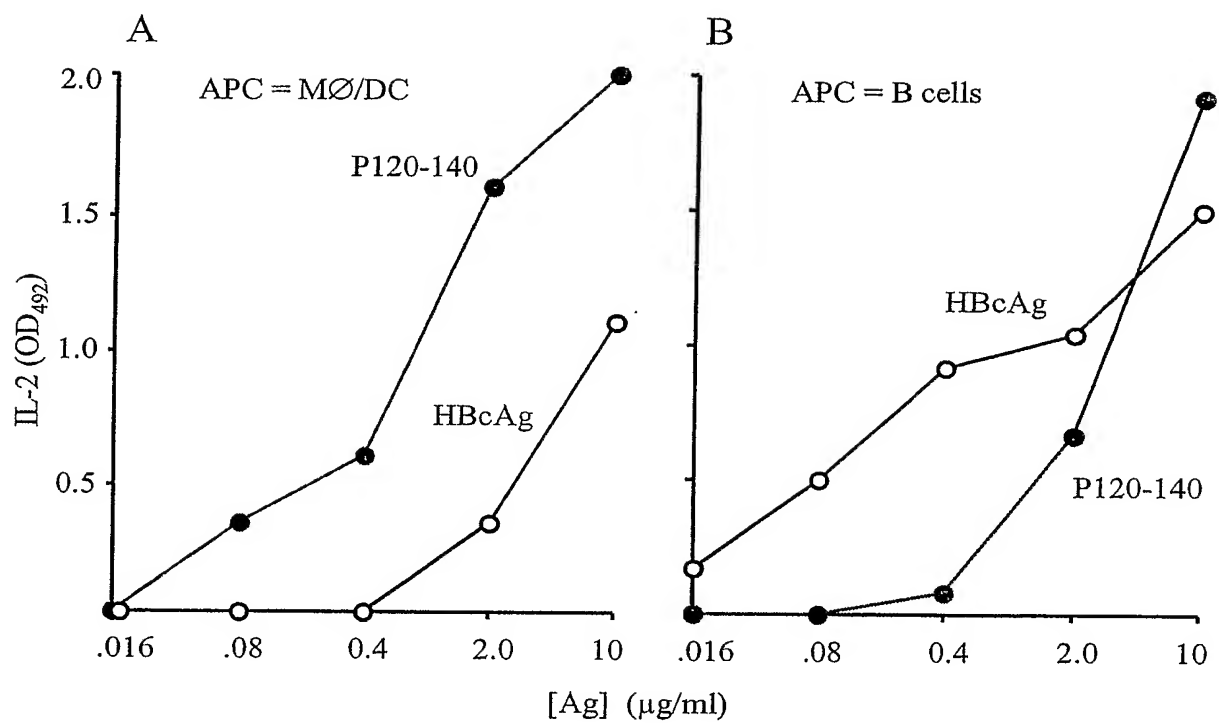
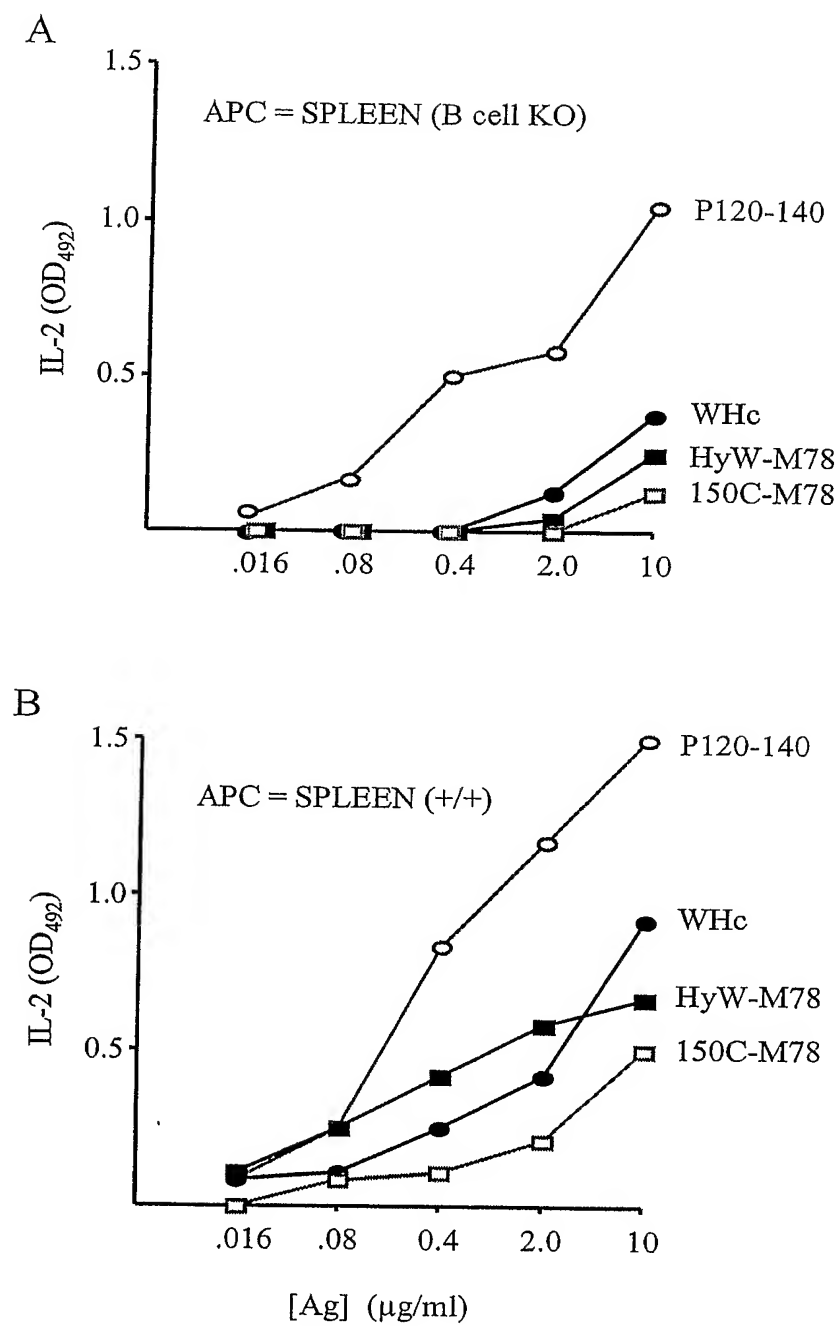
**Fig. 22**

Fig. 23

		mAb 14C2																Polyclonal Anti-HyW-IM2(-)78	

(Dilution=0.5 OD₄₉₂) (1/Dilution)

**Fig. 24**

**Fig. 25**

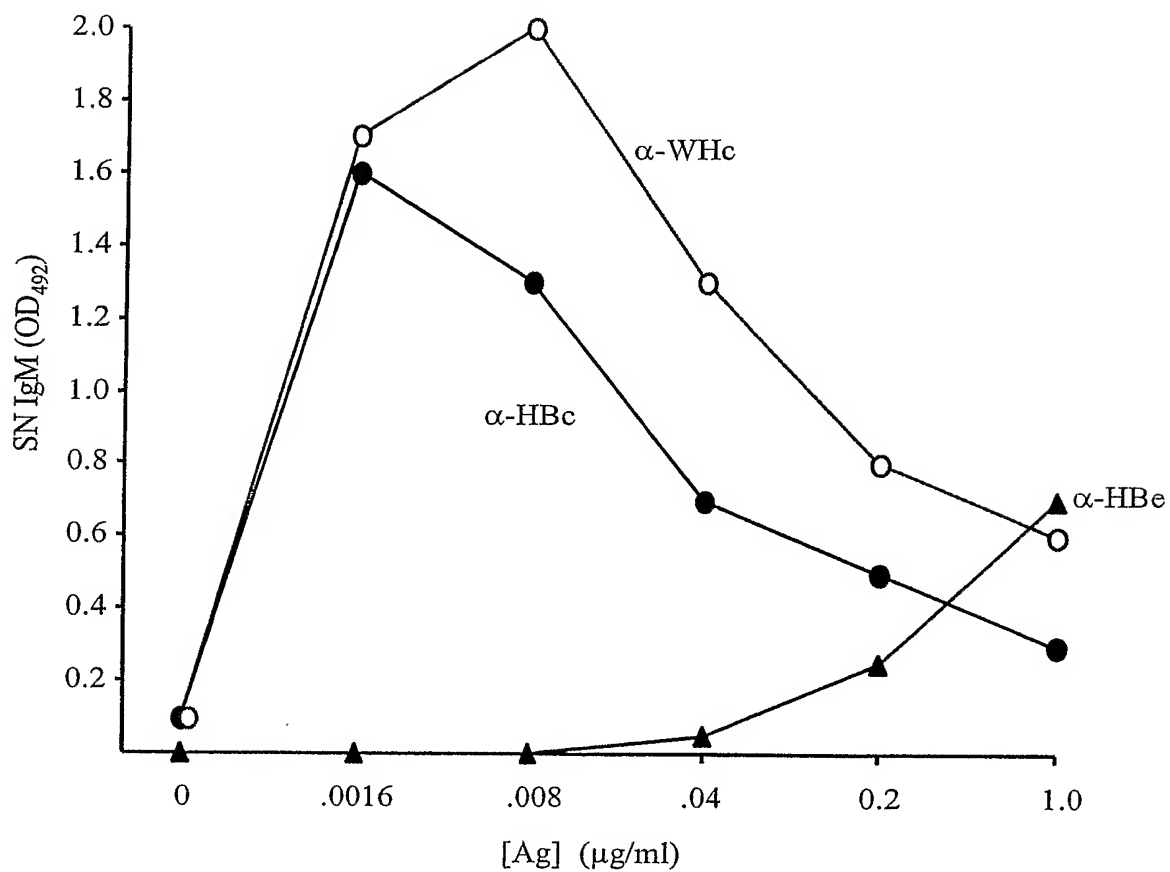


Fig. 26

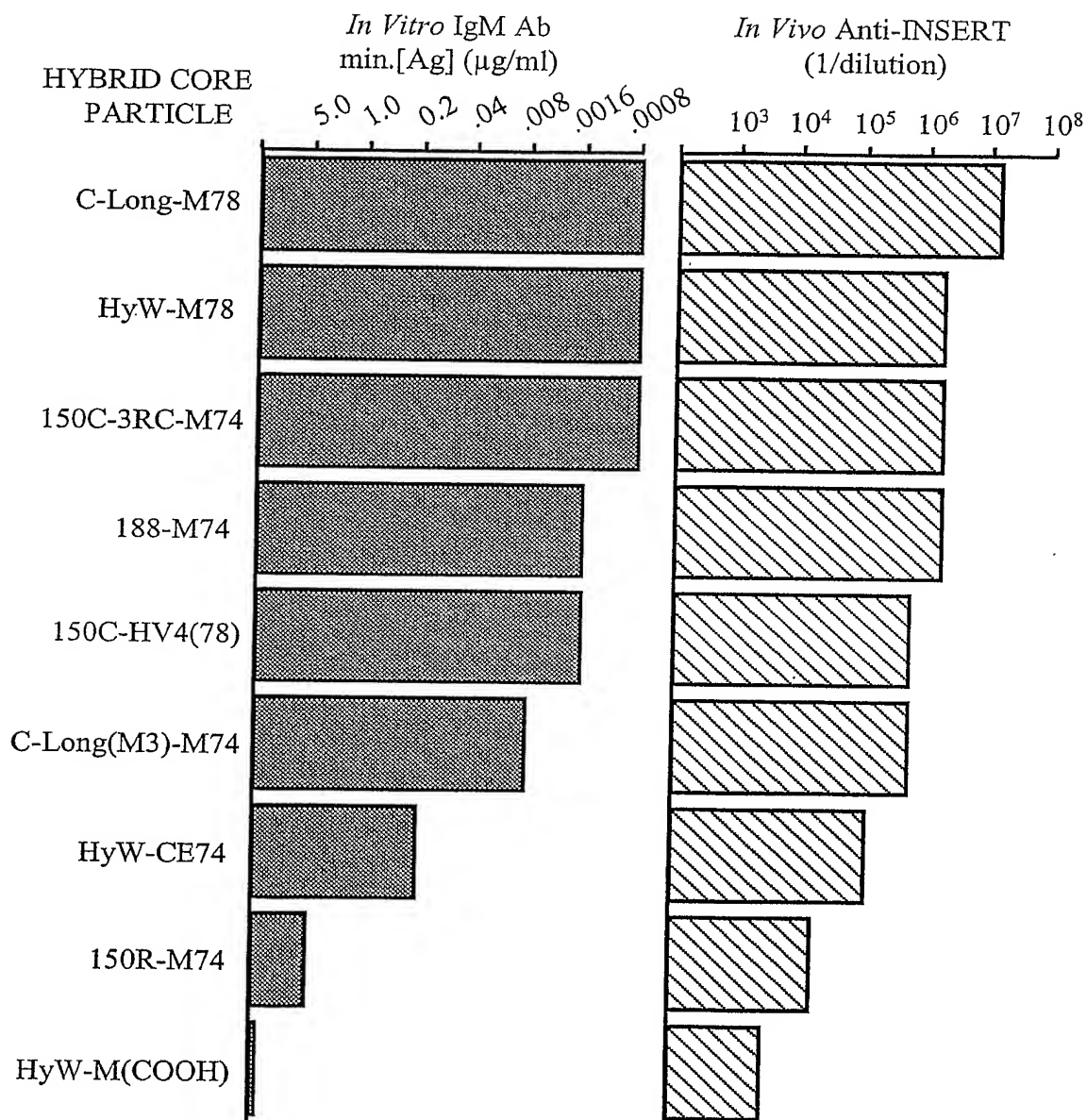
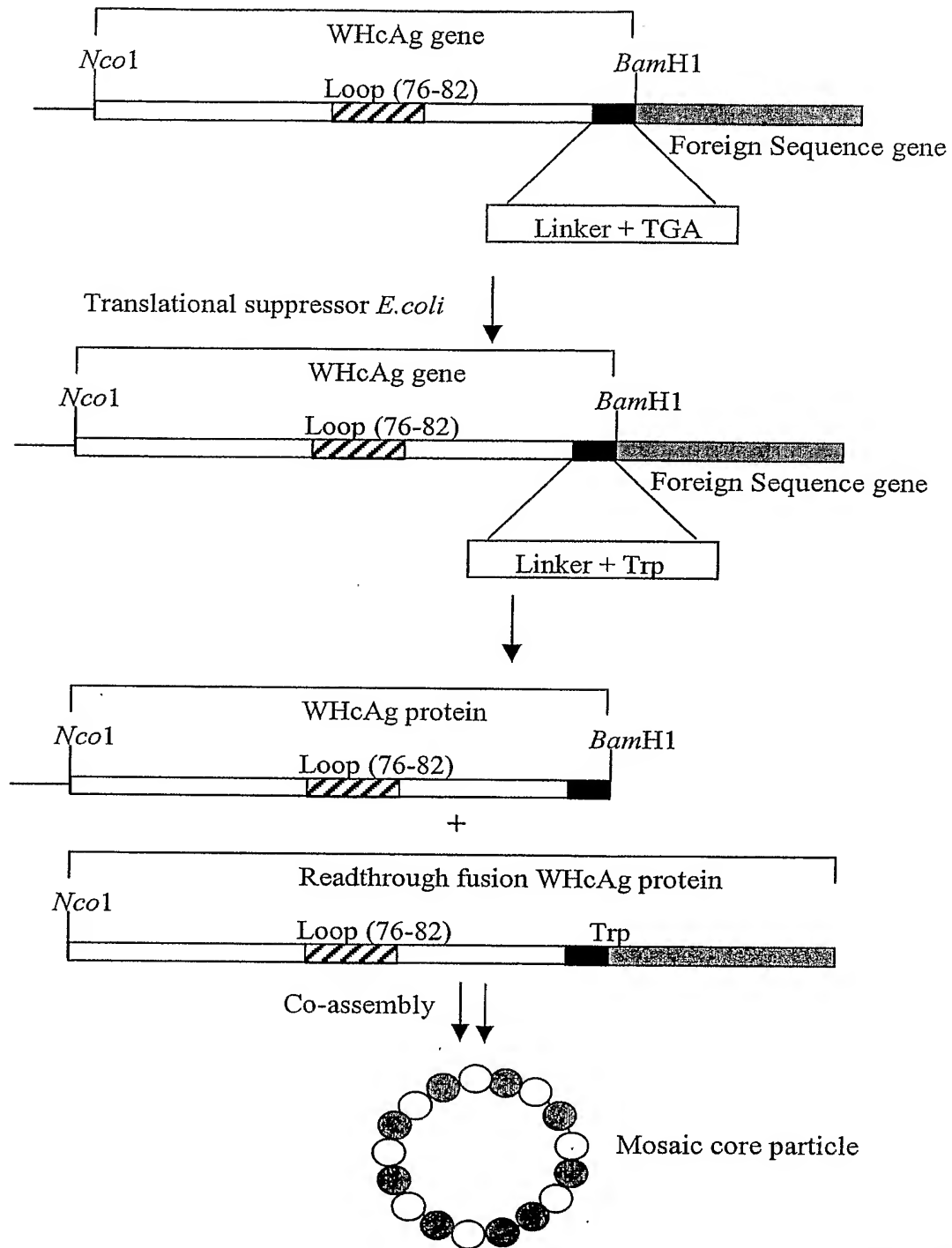


Fig. 27

**Fig. 28**

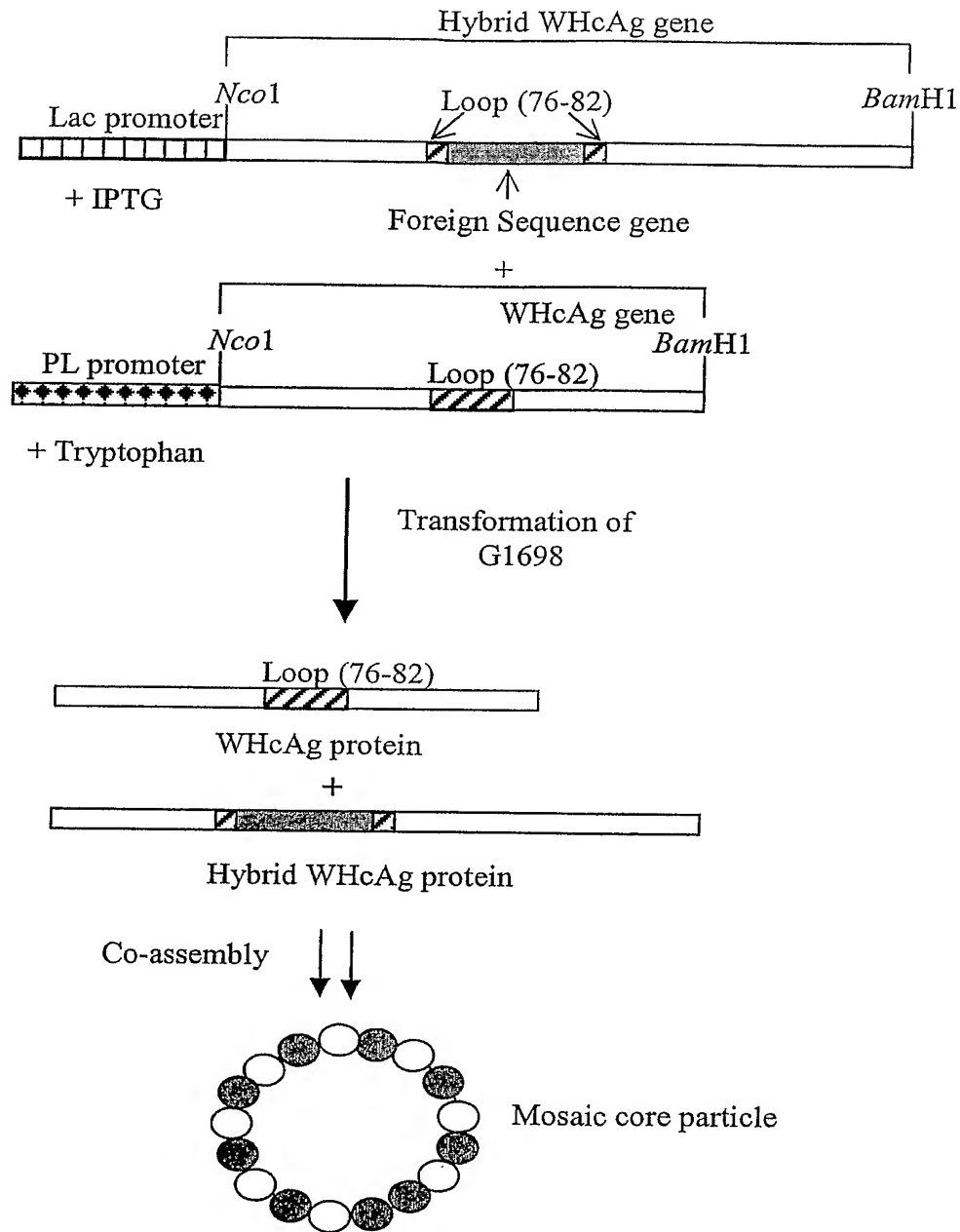
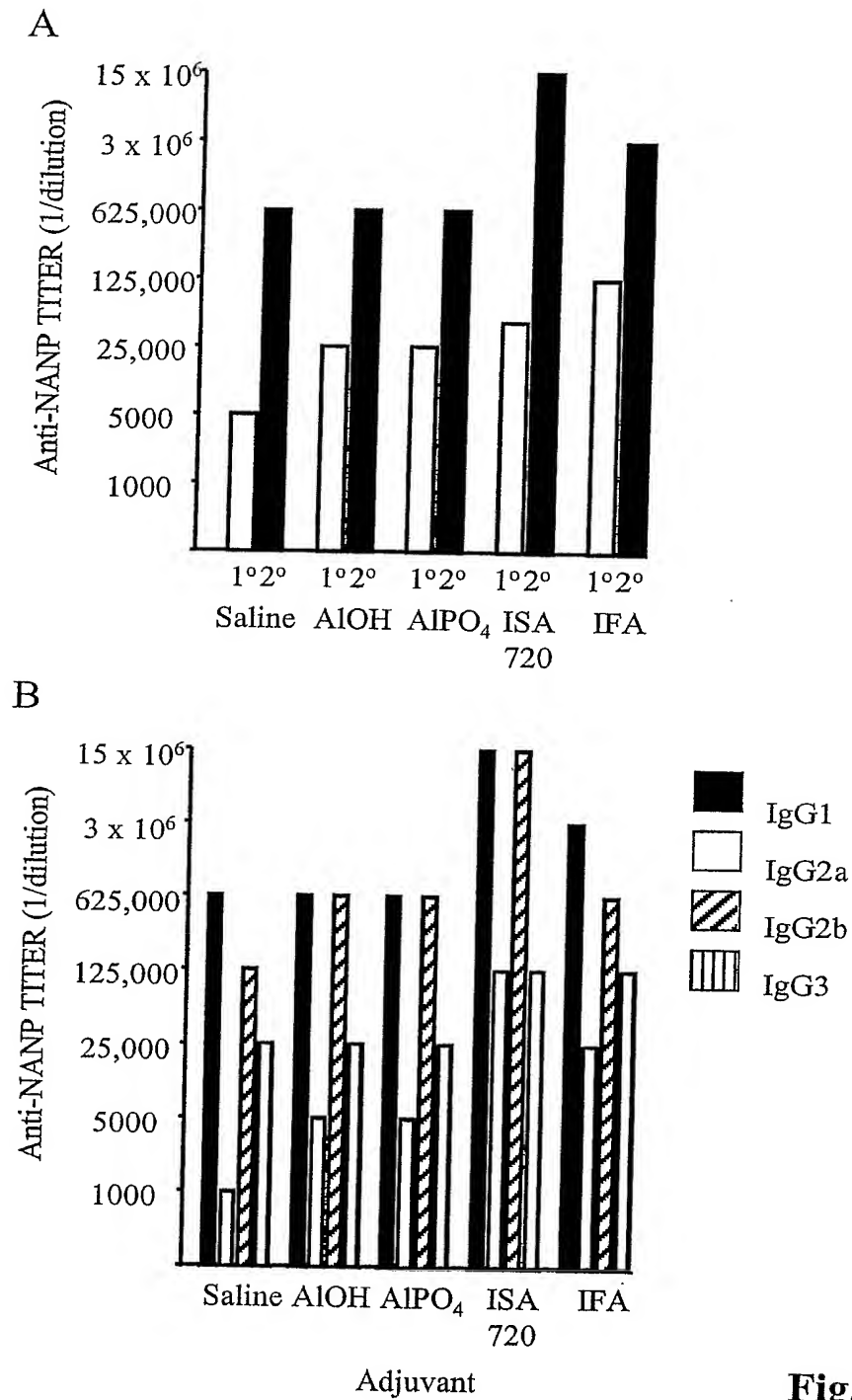
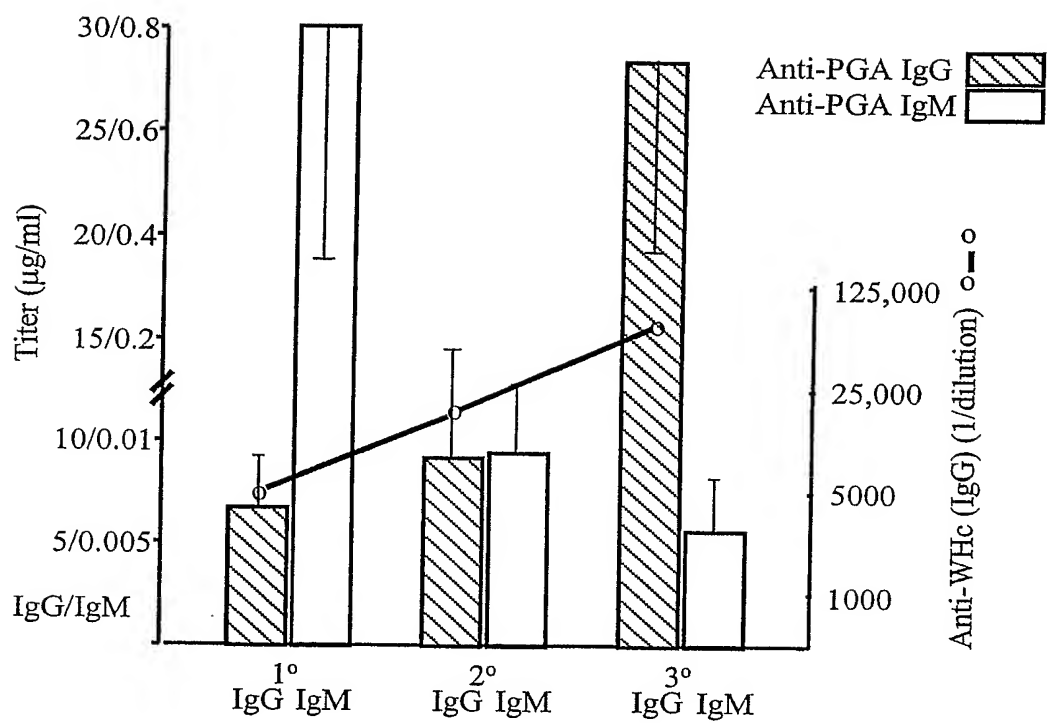


Fig. 29

**Fig. 30**

**Fig. 31**

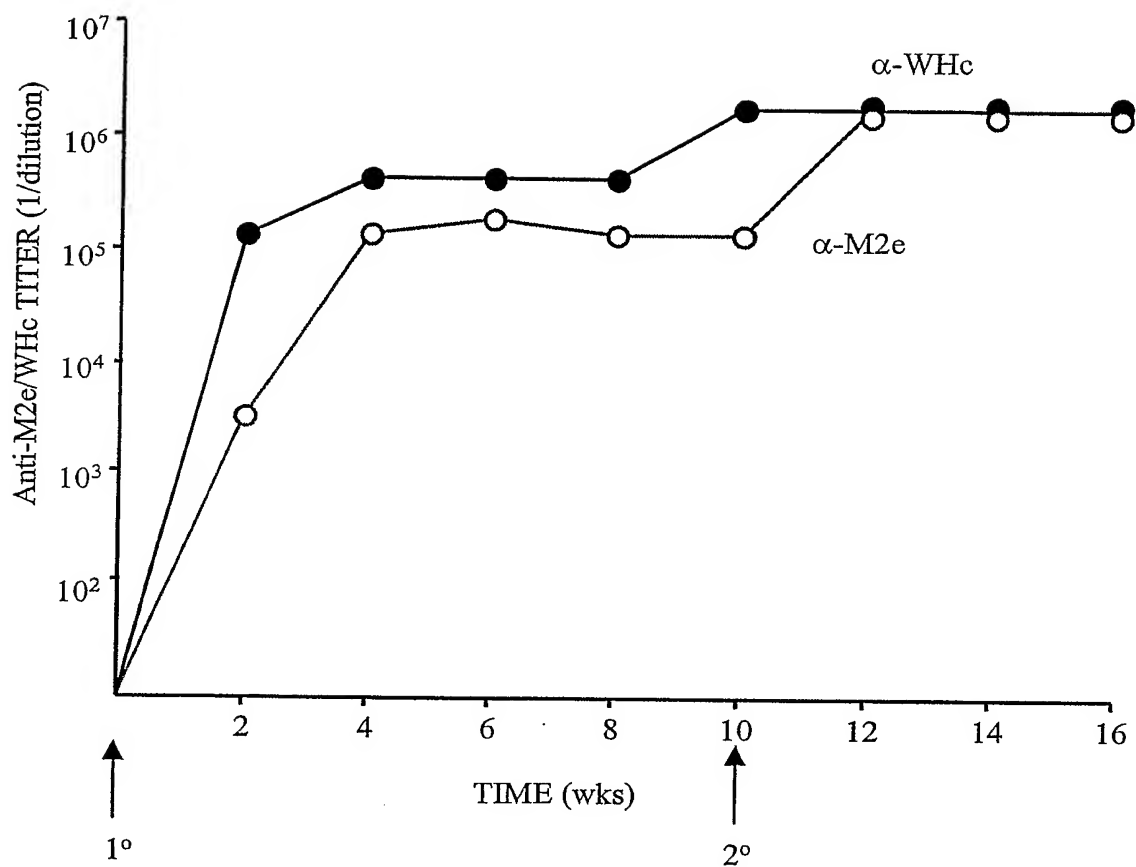
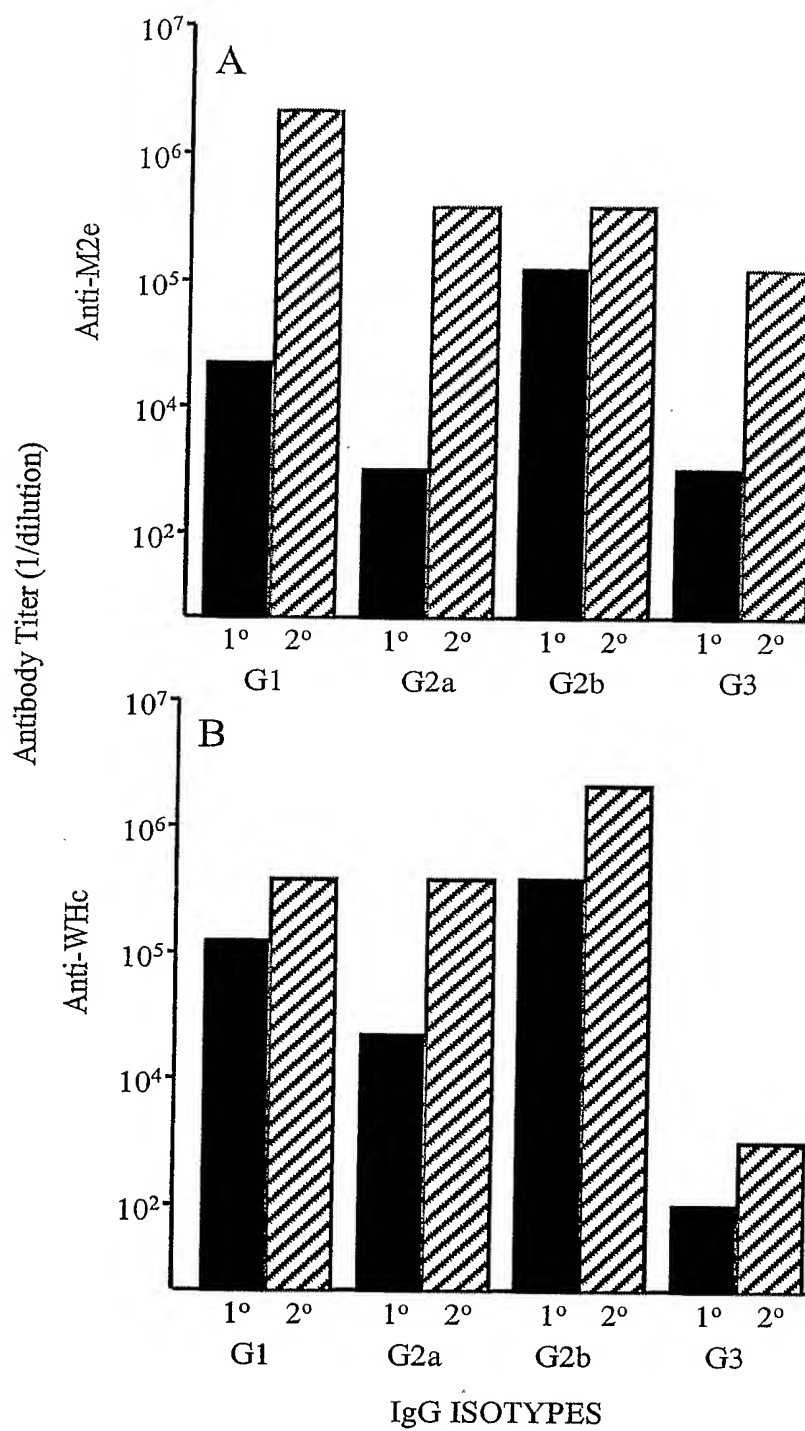


Fig. 32

**Fig. 33**

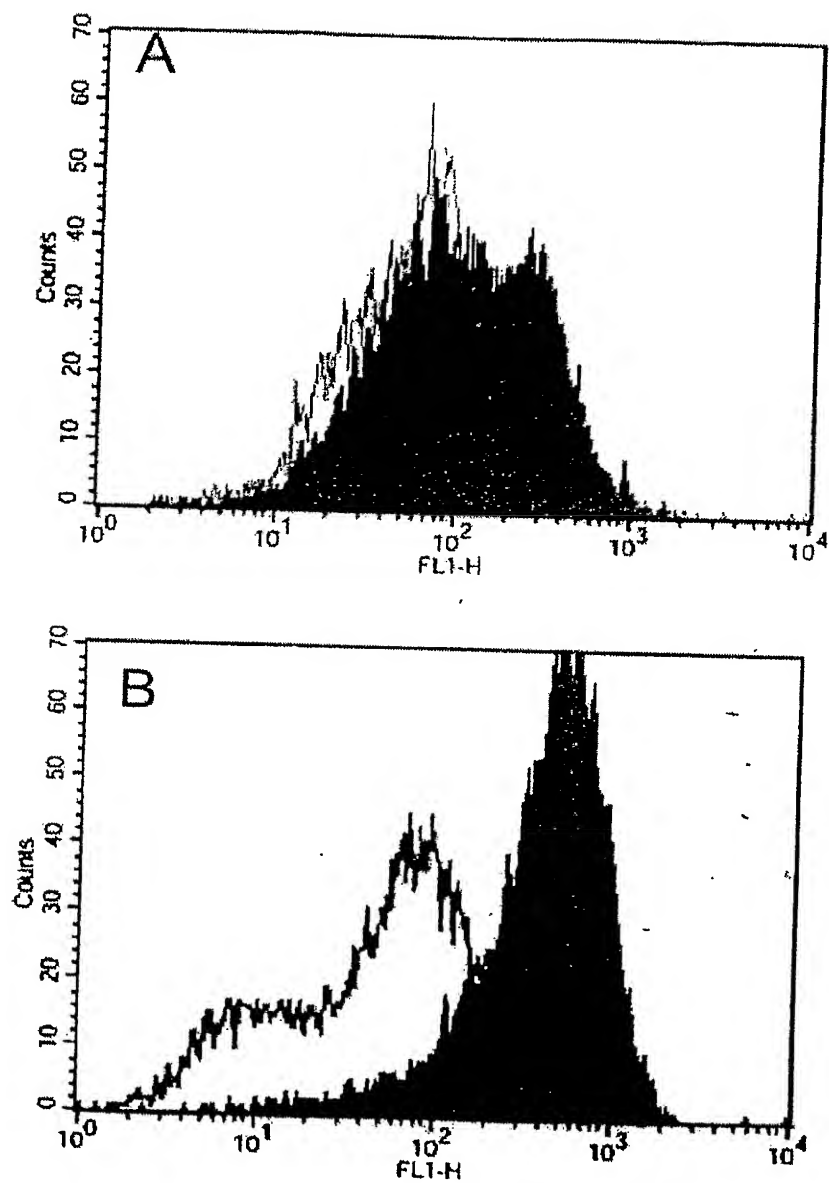
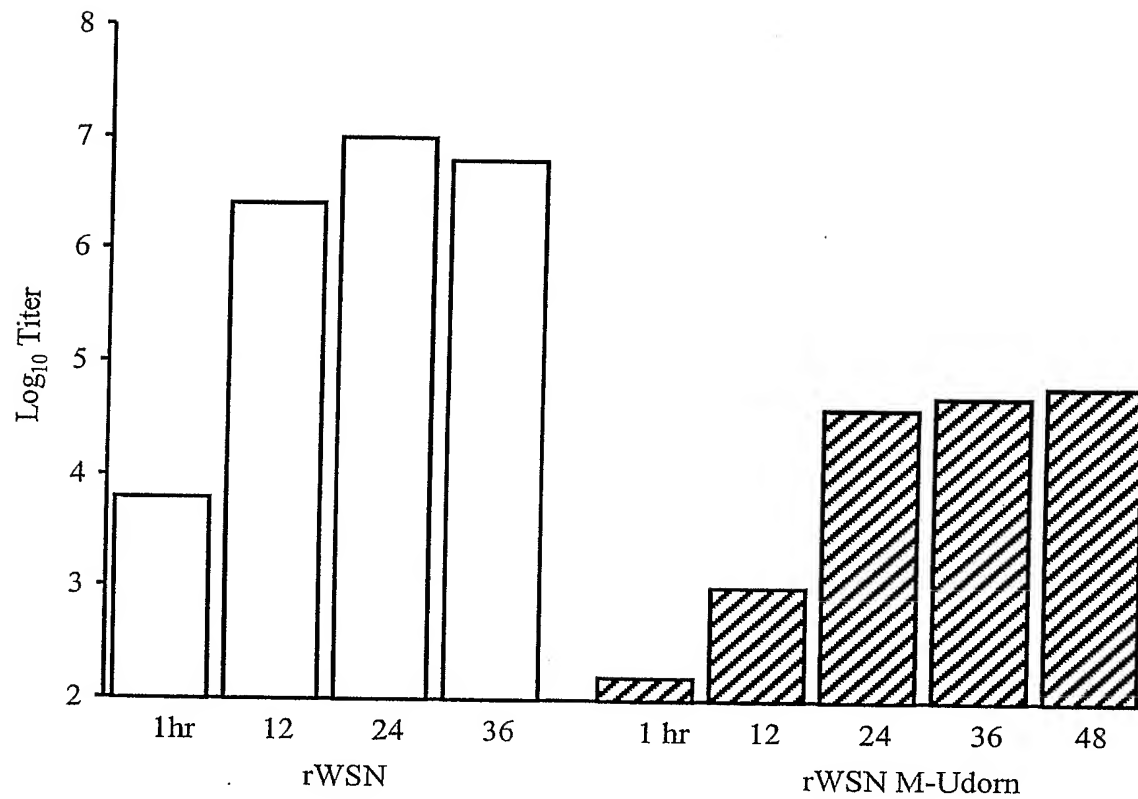


Fig. 34

**Fig. 35**

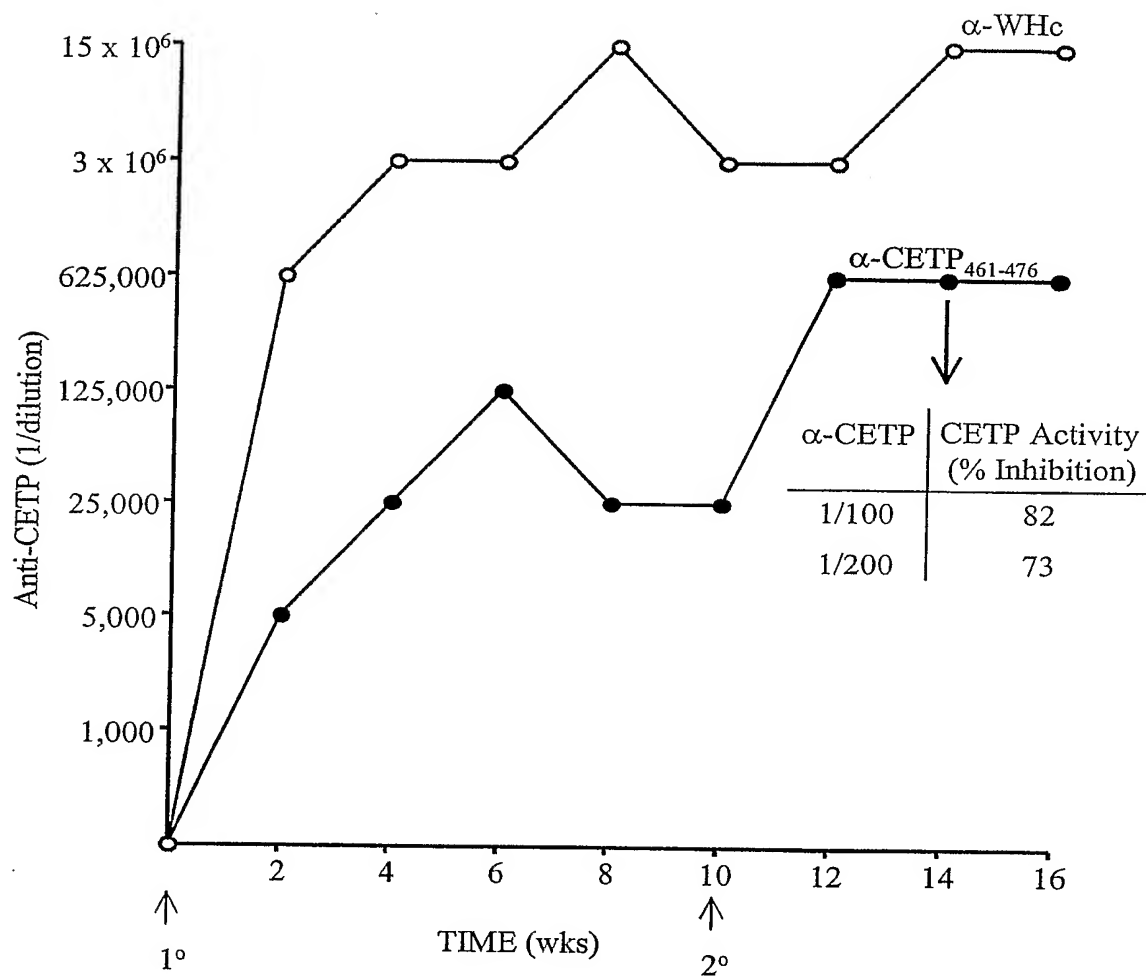
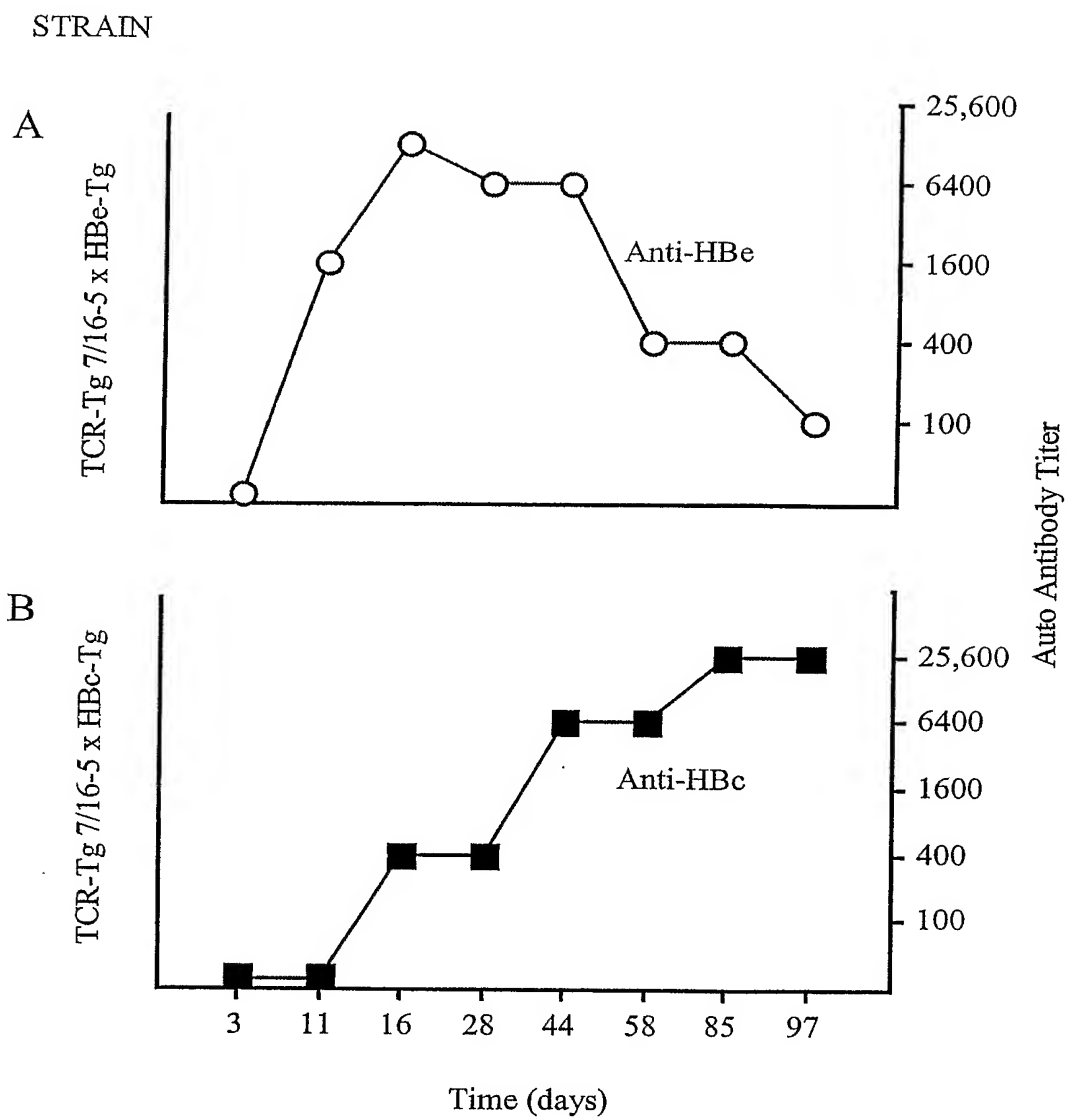


Fig. 36

**Fig. 37**

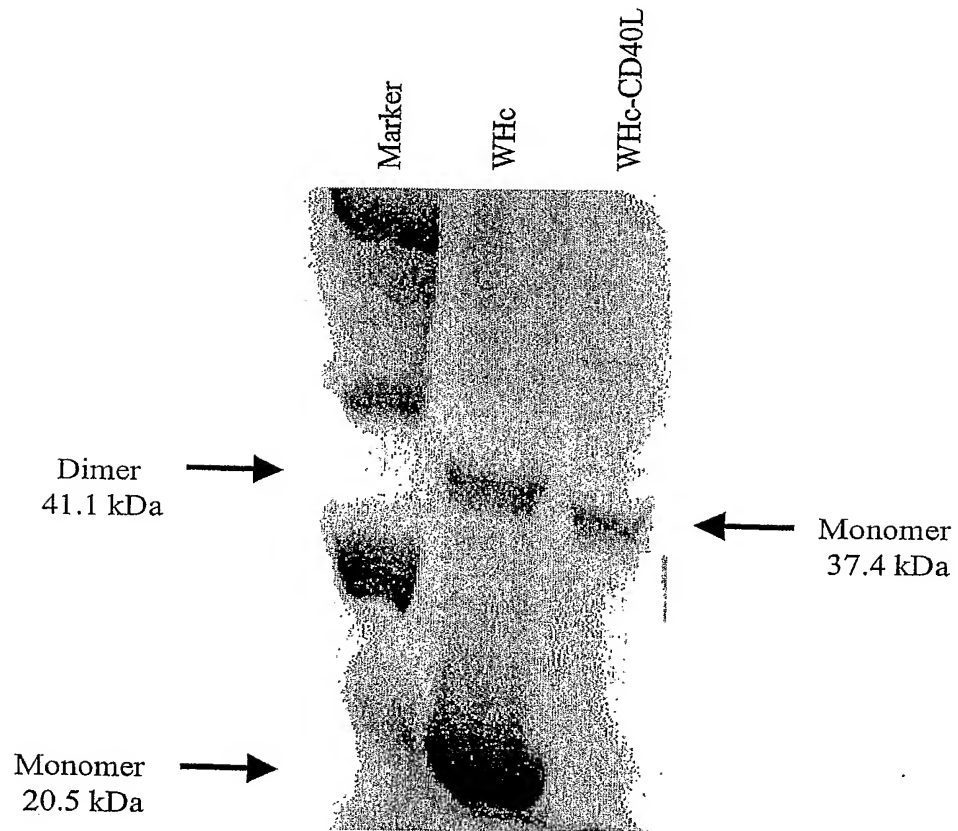


Fig. 38

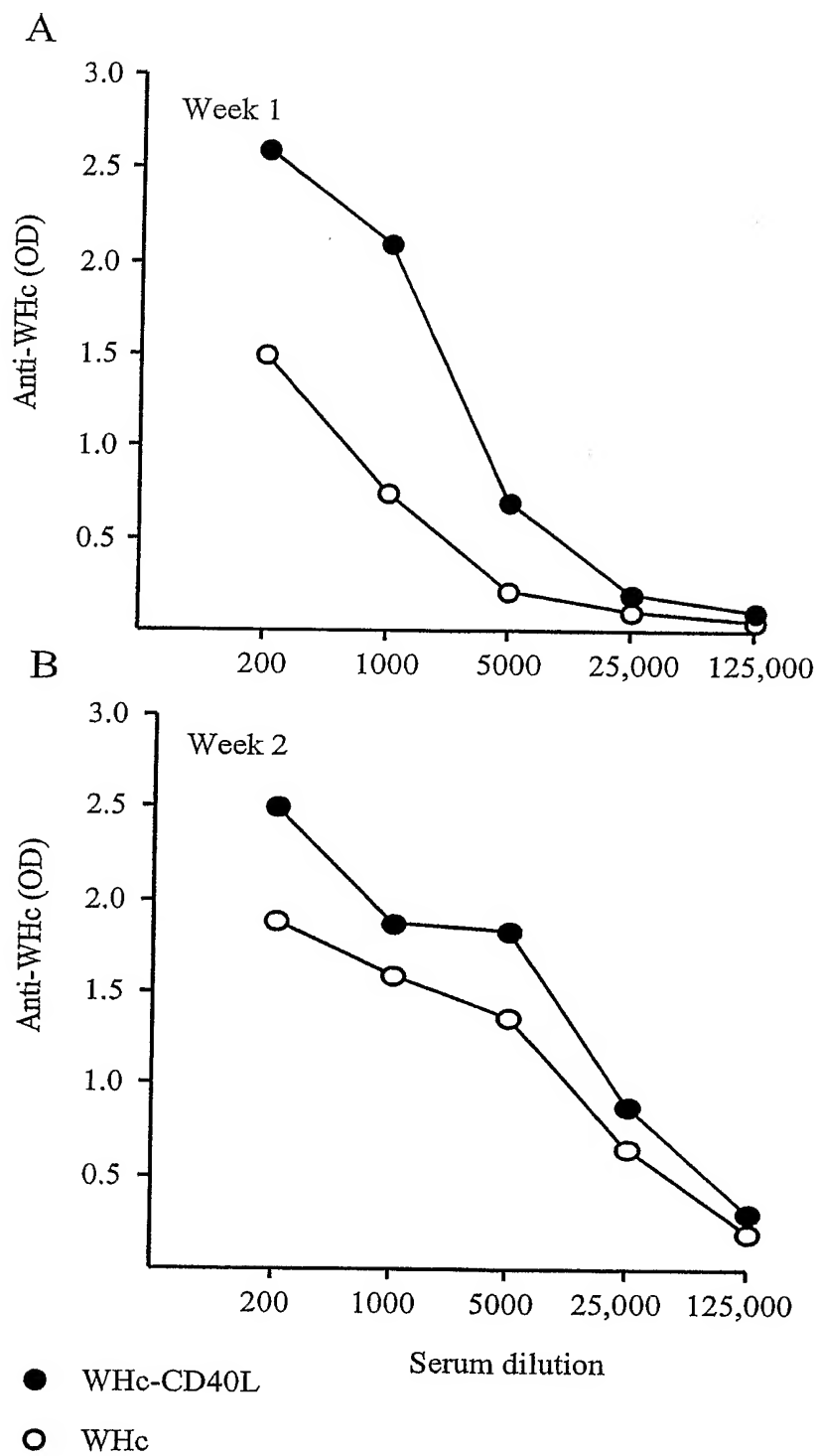
**Fig. 39**

Fig. 40

A Wild Type WHcAg DNA (SEQ ID NO:37)

ATGGACATAGATCCCTATAAAGAATTTGGTTCATCTTATCAGTTGTTGAATTTTCTTCC
TTTGGACTTCTTTCTTGACCTTAATGCTTTGGTGGACACTGCTACTGCCTTGTATGAAG
AAGAGCTAACAGGTAGGGAACATTGCTCTCCGCACCATAACAGCTATTAGACAAGCTTTA
GTATGCTGGGATGAATTAATAAATTGATAGCTTGGATGAGCTCTAACATAACTTCTGA
ACAAGTAAGAACAATCATTGTAAATCATGTCAATGATACCTGGGGACTTAAGGTGAGAC
AAAGTTTATGGTTTCATTTGTCATGTCTCACTTTCGGACAACATAACAGTTCAAGAATTT
TTAGTAAGTTTTGGAGTATGGATCAGGACTCCAGCTCCATATAGACCTCCTAATGCACC
CATTCTCTCGACTCTTCCGGAACATAACAGTCATTAGGAGAAGAGGAGGTGCAAGAGCTT
CTAGGTCCCCCAGAAGACGCACTCCCTCTCCTCGCAGGAGAAGATCTCAATCACCGCGT
CGCAGACGCTCTCAATCTCCATCTGCCAACTGCTGA

B Wild Type WHcAg (SEQ ID NO:1)

MDIDPYKEFGSSSYQLLNFLPLDFFPDLNALVDTATALYEEELTGREHCSPHHTAIRQAL
VCWDELTKLIAWMSSNITSEQVRTIIIVNHVNDTWGLKVRQSLWFHLSCLTFGQHTVQEF
LVSFQVWIRTPAPYRPPNAPILSTLPEHTVIRRRGGARASRSPRRRTPSPRRRRSQSPR
RRRSQSPSANC

C Truncated WHcAg (SEQ ID NO:38)

MDIDPYKEFGSSSYQLLNFLPLDFFPDLNALVDTATALYEEELTGREHCSPHHTAIRQAL
VCWDELTKLIAWMSSNITSEQVRTIIIVNHVNDTWGLKVRQSLWFHLSCLTFGQHTVQEF
LVSFQVWIRTPAPYRPPNAPILSTLPEHTVI

Fig. 41

A Wild Type GSHcAg DNA (SEQ ID NO:39)

ATGGACATAGATCCCTATAAAGAATTTGGTTCTTCTTATCAGTTGTTGAATTTTCTTCC
TTTGGACTTTTTTCCTGATCTCAATGCATTGGTGGACACTGCTGCTGCTCTTTATGAAG
AAGAATTAACAGGTAGGGAGCATTGTTCTCCTCATCATACTGCTATTAGACAGGCCTTA
GTGTGTTGGGAAGAATTAAGTAGATTAATTACATGGATGAGTGAAAATACAACAGAAGA
AGTTAGAAGAATTATTGTTGATCATGTCAATAATACTTGGGGACTTAAAGTAAGACAGA
CTTTATGGTTTCATTTATCATGTCTTACTTTTGGACAACACACAGTTCAAGAATTTTGG
GTTAGTTTTGGAGTATGGATTAGAACTCCAGCTCCTTATAGACCACCTAATGCACCCAT
TTTATCAACTCTTCCGGAACATACAGTCATTAGGAGAAGAGGAGGTTCAAGAGCTGCTA
GGTCCCCCGAAGACGCACTCCCTCTCCTCGCAGGAGAAGGTCTCAATCACCGCGTCGC
AGACGCTCTCAATCTCCAGCTTCCAAGTCTGA

B Wild Type GSHcAg (SEQ ID NO:21)

MDIDPYKEFGSSYQLLNFLPLDFFPDLNALVDTAALYEEELTGREHCSPHHTAIRQAL
VCWEELTRLITWMSSENTTEEVRRIIVDHVNNTWGLKVRQTLWFHLSCLTFGQHTVQEFL
VSFGVWIRTPAPYRPPNAPILSTLPEHTVIRRRGGSRAARSPRRRTPSPRRRRSQSPRR
RRSQSPASNC

C Truncated GSHcAg (SEQ ID NO:40)

MDIDPYKEFGSSYQLLNFLPLDFFPDLNALVDTAALYEEELTGREHCSPHHTAIRQAL
VCWEELTRLITWMSSENTTEEVRRIIVDHVNNTWGLKVRQTLWFHLSCLTFGQHTVQEFL
VSFGVWIRTPAPYRPPNAPILSTLPEHTVI

Fig. 42

A Wild Type HBcAg DNA (SEQ ID NO:57)

ATGGACATCGACCCTTATAAAGAATTTGGAGCTACTGTGGAGTTACTCTCGTTTTTGGC
TTCTGACTTCTTTCCTTCAGTACGAGATCTTCTAGATACCGCCTCAGCTCTGTATCGGG
AAGCCTTAGAGTCTCCTGAGCATTGTTACCTCACCATACTGCACTCAGGCAAGCAATT
CTTTGCTGGGGGGAACATAATGACTCTAGCTACCTGGGTGGGTGTTAATTTGGAAGATCC
AGCATCCAGAGACCTAGTAGTCAGTTATGTCAACACTAATATGGGCCTAAAGTTCAGGC
AACTCTTGTGGTTTCACATTTCTTGTCTCACTTTTGGAGAGAAACCGTTATAGAGTAT
TTGGTGTCTTTTCGGAGTGTGGATTTCGCACTCCTCCAGCTTATAGACCACCAAATGCCCC
TATCCTATCAACACTTCCGGAACTACTGTTGTTAGACGACGAGGCAGGTCCCCTAGAA
GAAGAACTCCCTCGCCTCGCAGACGAAGGTCTCAATCGCCGCGTCGCAGAAGATCTCAA
TCTCGGGAATCTCAATGTTGA

B Wild Type HBcAg (SEQ ID NO:41)

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALESPEHCSPHHTALRQAI
LCWGELMTLATWVGVNLEDPASRDLVVSYNNTNMGLKFRQLLWFHISCLTFGRETVIEY
LVSFGVWIRTPPAYRPPNAPILSTLPETTVVRRRGRSPRRRTPSPRRRRSQSPRRRRSQ
SRESQC

C Truncated HBcAg (SEQ ID NO:58)

MDIDPYKEFGATVELLSFLPSDFFPSVRDLLDTASALYREALESPEHCSPHHTALRQAI 54
LCWGELMTLATWVGVNLEDPASRDLVVSYNNTNMGLKFRQLLWFHISCLTFGRETVIEY 112
LVSFGVWIRTPPAYRPPNAPILSTLPETTVV

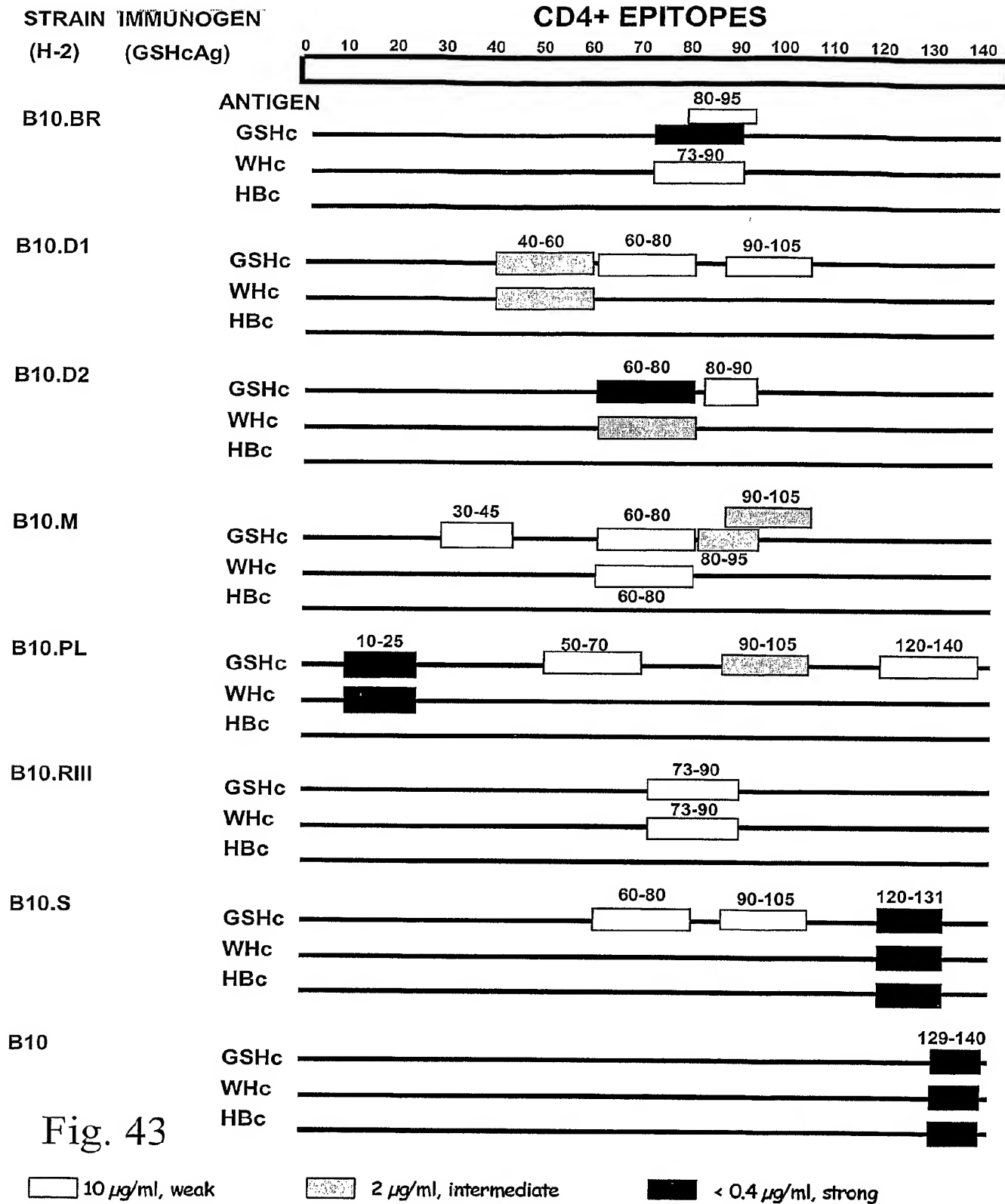


Fig. 43

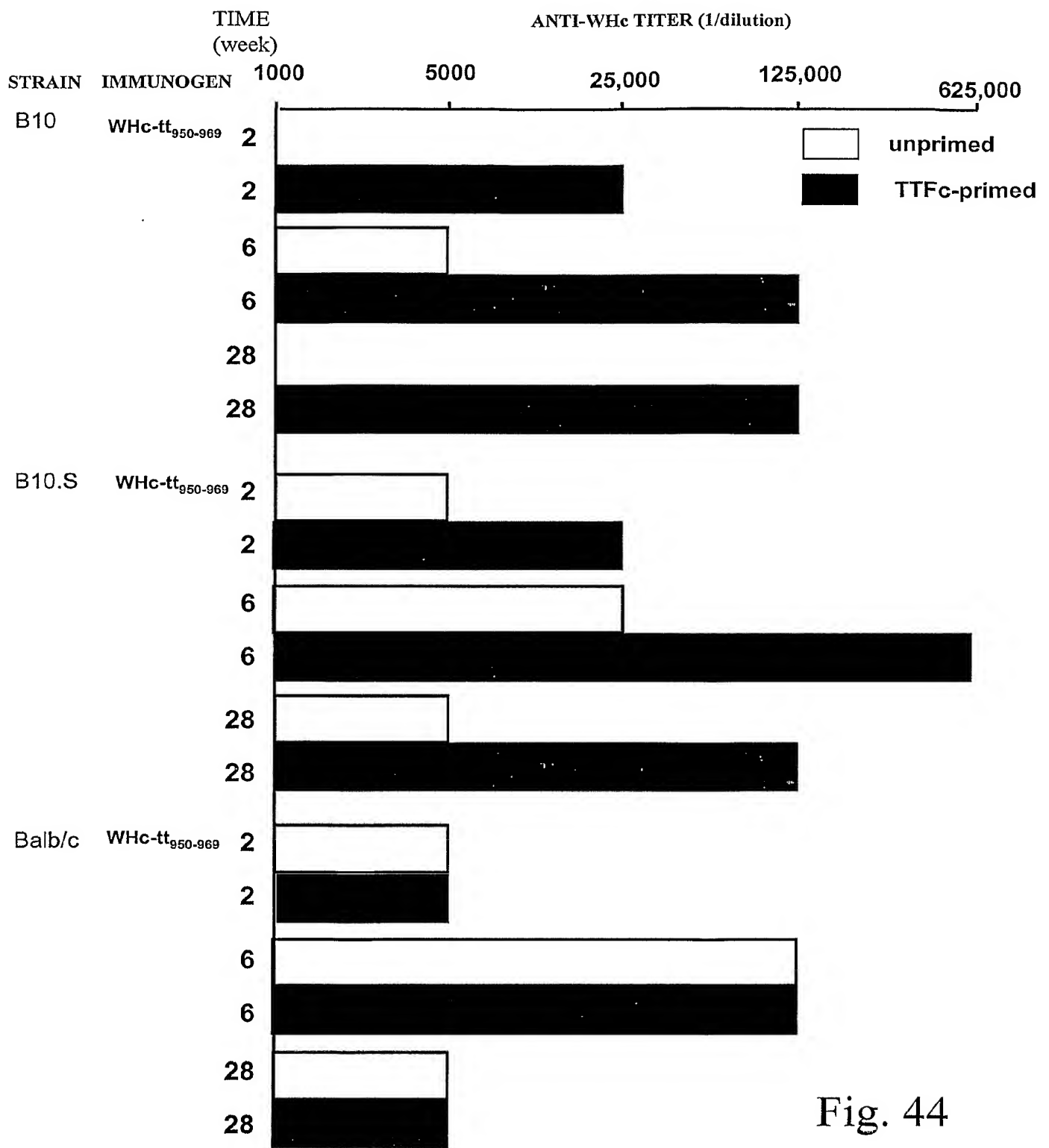
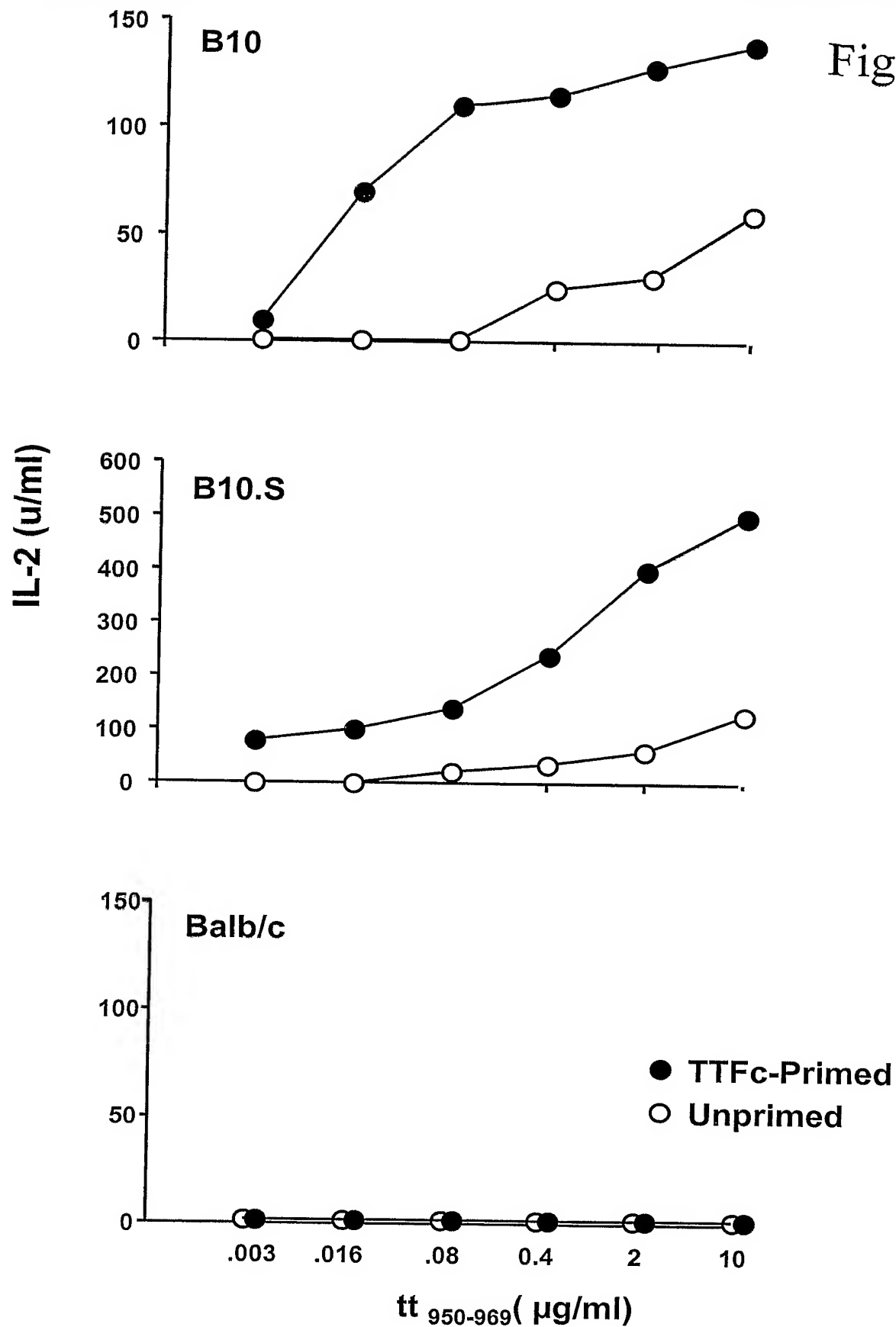


Fig. 44

Fig. 45



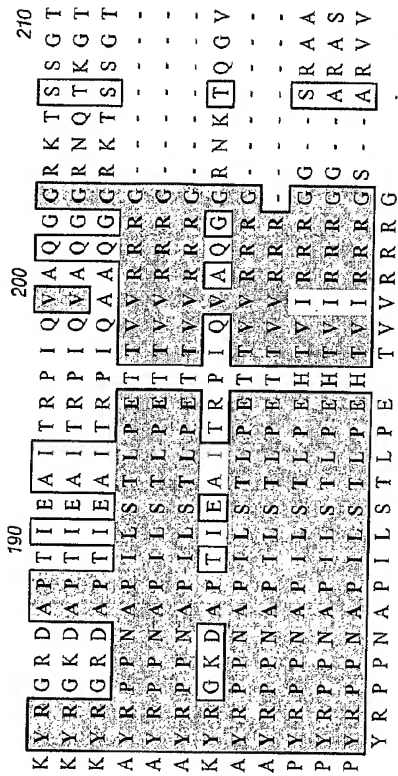
התאחדות המורים

DHBV-S31 M32991
HHEV M22056
DHBV_NC 001344
HDB aytw X55257
Chimp_HBV AF222323
Gibbon_HBV AY07735
Ross 'gooseHBV M95589
Orangutan_HV NC_002168
WMHBV AF046996
GSBV K02715
WHV J02442
AGSH_NC 001719

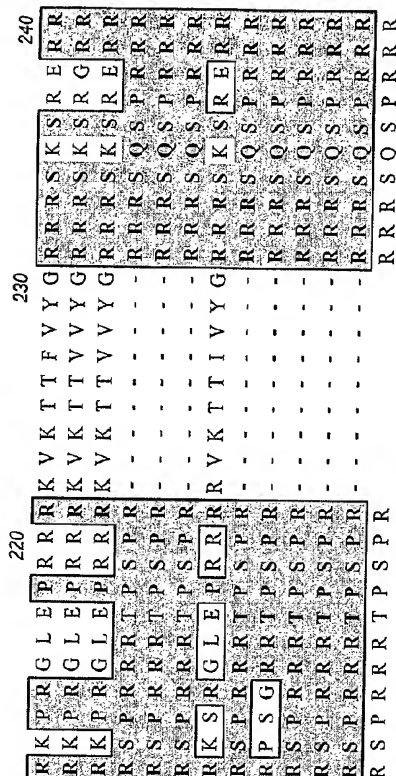
DHBV_S31 M32991
HHBV M22056
DHBV_NC_001344
HBV_ayw X65257
Chimp.HBV AF222323
Gibbon HBV AY077735
Ross'gooseHBV M95589
Orangutan HV_NC_002168
WHBV AF046996
GSHV K02715
WHV J02442
AGSH_NC_001719

DHEV-S31 M32991
HHEV M22056
DHEV_NC_001344
HBV ayw X65257
Chimp.HBV AF222323
Gibbon HBV AY077735
Ross'gooseHBV M95589
Orangutan HV NC_002168
WMHBV AF046996
GSHV K02715
WHV J02442
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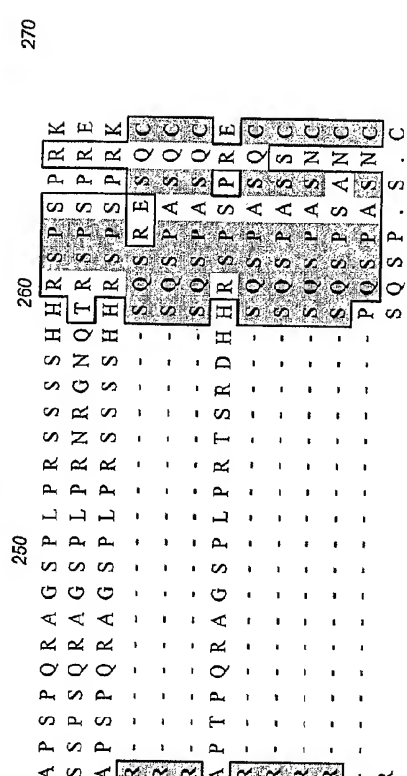
DHBV-S31 M32991
HBBV M22056
HBBV NC_001344
HBV ayw X65257
Chimp. HBV AF223232
Gibbon. HBV AY077735
Ross' goose HBV M95589
Orangutan HB NC_002168
WMHBV AF046996
GSBV K02715
WHV J02442
AGSH NC_001719



DHBV-S31 M32991
HHBV M22056
DHBV NC_001344
HBV ayw X65257
Chimp.HBV AF222323
Gibbon HBV AY077935
Ross'gooseHBV M95589
Oraugutan HV NC_002168
WMHBV AF046996
GSHV K02715
WHV J02442
AGSH NC_001719



DDBY-S31 M32991
 HHBV M22056
 DHBV NC 001344
 HBV ayw X65257
 Chimp.HBV AF222323
 Gibbon HBV AY077735
 Ross'gooseHBV M95589
 Orangutan HV NC_002168
 WMBHV AF046996
 GSHV K02715
 WHV J02442
 AGSH NC 001719



DHEV-S31 M32391
HHEV M22056
DHBV NC_001344
HBBV ayw X65257
Chimp.HBV AP222323
Gibbon HBV AY077735
Ross'gooseHBV M95589
Orangutan HV NC_002168
WHEBV AF046396
GSBV K02715
MSV J02442
AGSH NC_001719

FIG. 46C